



On Demand Resource Scheduling, Version 6

Effective: 08/22/12

In its 2012-2013 transmission rate case, BPA proposed offering “[Supplemental Service](#)¹,” a service that would allow a wind project operator or the operator of some other variable energy resource to purchase reserves or request that BPA purchase reserves that would be deployed by BPA during a DSO 216 event to reduce the amount by which the e-Tag from a wind facility or other variable energy resource would otherwise be curtailed when that facility is under-generating relative to schedule.

This is accomplished by scheduling Supplemental Resources to supply reserves, which are called upon by BPA by changing the generation profile of the “capacity” type e-Tag of the associated scheduled [Supplemental Service Resource](#)², which must be an [On Demand Resource](#)³. This program will begin on or before July 1, 2012 and continue through September 30, 2013, unless extended by BPA. For more information on Supplemental Service, refer to the [Supplemental Service Business Practice](#).

BPA’s On Demand Resource Scheduling Business Practice, which is an essential component to implementing Supplemental Service, has been revised to be consistent with the Supplemental Service policies adopted in the rate case. Specifically, the On Demand Resource Scheduling Business Practice has been revised to make clear that a resource located within BPA’s Balancing Authority Area or a [Demand Response Resource](#)⁴ may qualify as an On Demand Resource.

Further, portions of BPA’s On Demand Resource Scheduling Business Practice have been revised to conform with current practice. BPA can no longer support capacity tags on the DC Intertie. BPA cannot assure timely response if a capacity tag on the DC Intertie were called during the [Operating Hour](#)⁵ because BPA has to manually change valve group settings, which cannot

¹An energy service acquired by BPA or provided by the Participant for the purpose of reducing the amount by which the energy profile of the e-Tag for a Wind Facility or other Variable Energy Resource would be reduced when BPA initiates a wind e-Tag curtailment due to under-generation.

²An On Demand Resource located within BPA’s Balancing Authority Area, or one or more On Demand Resources located outside BPA’s Balancing Authority Area from which Supplemental Service would be supplied.

³a. A resource located within BPA’s Balancing Authority Area; b. An arrangement with a neighboring Balancing Authority that allows the delivery of power on BPA’s system to or from a neighboring system; or c. A Demand Response Resource capable of meeting the technical requirements for an On Demand Resource.

⁴A dispatchable resource that reduces load either by reducing consumption of energy (A) by turning off loads, such as air conditioners or water heaters, or (B) by calling on distributed generation located behind a meter, such as emergency generators located in a building.

⁵The current hour. Also defined as the Clock Hour.

always be done within ten minutes as required by NERC standards. This could potentially cause a reliability problem. Capacity tags on the COI or other paths do not give rise to this problem.

Version 6 adds under General Principles, Section A, the provision to allow more than one On Demand Resource schedule from an On Demand Resource and to allow more than once per hour change to an ODR output if a qualifying event under the NWPP Reserve Sharing Group occurs.

A. General Principles

1. A Transmission **Customer**¹ must contact Transmission Services at least 30 days prior to submitting the first schedule for an On Demand Resource. It will take a minimum of 30 days for BPA to review, approve and implement a new On Demand Resource.
2. An On Demand Resource must be capable of meeting the technical requirements set forth in this Business Practice or otherwise applicable to scheduling and operating On Demand Resources.
3. A Transmission Customer may submit more than one **On Demand Resource Schedule**² from an On Demand Resource. If a Transmission Customer submits more than one On Demand Resource schedule with the same customer, all On Demand Resource schedules with that customer must be deployed simultaneously unless a NWPP RSG Program Documentation qualifying contingency reserve event occurs.
4. The output of an ODR may be changed once during the hour of delivery unless a qualifying event under the NWPP RSG Program Documentation occurs.
5. Firm transmission rights are required on **FCRTS**³ to implement On Demand Resource. Firm Transmission is not required for Power Services to submit a schedule for an On Demand Resource to provide reserves to Transmission Services.
6. The requesting Transmission Customer may allocate all or part of a FCRTS firm Point-to-Point (PTP) Transmission reservation to an On Demand Resource schedule. The Transmission Customer may allocate any remaining Transmission Demand to standard transmission usage.
7. A Transmission Customer with an On Demand Resource schedule that is within BPA's Balancing Authority Area that is not using FCRTS Capacity must demonstrate that it has firm transmission capacity across BPA's Balancing Authority Area for its On Demand Resource schedule.

B. Submitting a Schedule for an On Demand Resource

1. A Transmission Customer must submit an E-Tag to set aside transmission for an On Demand Resource.

¹Any customer taking service under Use of Facilities (UFT), Formula Power Transmission (FPT), Integration of Resources (IR), Part II or Part III of the OATT.

²is an interchange or other capacity schedule for an On Demand Resource that may be activated once during the Operating Hour. A capacity schedule for an On Demand Resource requires firm transmission for the delivery of energy to a specified Point of Delivery on BPA's system.

³Federal Columbia River Transmission System

- a. The e-tag type “CAPACITY” is required for an On Demand Resource schedule.
 - b. The maximum energy that can be called on during the hour for an On Demand Resource schedule is the **Transmission Profile**¹ of the e-Tag for that hour.
 - c. The **Energy Profile**² of the e-Tag for an On Demand Resource schedule must reflect the amount of energy expected to be generated by the resource at the beginning of the delivery hour.
2. The Transmission Profile may be changed up to twenty (20) minutes prior to the hour of delivery.
 3. To activate an On Demand Resource during the Operating Hour, a Transmission Customer must update the energy profile on the e-Tag with start time, stop time, and duration of the transmission ramp, unless the On Demand Resource is supplying Supplemental Services in which case BPA would activate the resource as provided in BPA's [Supplemental Service Business Practice](#).
 4. The adjustment to the Energy Profile during the hour, even if not the full amount set aside in the Transmission Profile, will remain in effect without change until ramped out the top of the hour beginning at 0:50 and completing the ramp out by 0:60.
 - a. If the energy profile is zero going into the hour, the energy profile adjustment can only be moved up once in the hour.
 - b. If the energy profile equals the transmission profile going into the Operating Hour, the energy profile adjustment can only be moved down once in the Operating Hour.
 - c. If the energy profile is greater than zero but less than the transmission profile going into the hour, the energy profile adjustment can only be made once in the hour. The adjustment may be either up or down once during the Operating Hour, but only one adjustment is allowed per tag within the hour.
 5. The portion of the Transmission Demand that has been reserved for On Demand Resource scheduling cannot be resold or reassigned.
 6. All Transmission Demand reserved for an On Demand Resource schedule, whether or not the resource is called on, will be included in determining whether the Transmission Customer has incurred an Unauthorized Increase.

C. Limitations for an On Demand Resource

1. Transmission Services may suspend delivery of an On Demand Resource into, out of, or through BPA's Balancing Authority Area if the reliability of the FCRTS is threatened.

¹The maximum amount of firm reserved capacity set aside to cover the Energy Profile. The data on the e-Tag related to the hourly Transmission Demand.

²The data on the e-Tag related to the hourly interchange schedule.

2. Transmission Services may establish a maximum On Demand Resource ramp rate for each On Demand Resource and may impose operating limitations when necessary to protect reliable operation.
3. Transmission Services is the Path Operator of the COI North of the California-Oregon Border. An On Demand Resource over the COI, without regard to whose transmission rights are used, must be monitored and operated through BPA's Balancing Authority Area.
4. On Demand Resource Schedules or other capacity schedules are not permitted on the DC Intertie.

D. Additional Information

Policy Reference

- [OATT](#): Section 3
- [Transmission & Ancillary Service Rate Schedules](#)

Related Business Practices

- Scheduling Transmission Service

Version History

Version 6	08/22/12 Version 6 adds under General Principles, Section A, the provision to allow more than one On Demand Resource schedule from an On Demand Resource and to allow more than once per hour change to an ODR output if a qualifying event under the NWPP Reserve Sharing Group occurs.
Version 5	03/20/12 BPA has changed the title of this Business Practice from "On Demand Rights" to "On Demand Resource Scheduling" to better reflect the fact that this Business Practice is about scheduling an On Demand Resource on existing firm transmission rights, but does not confer transmission rights. This version has been revised to make clear that a resource located within BPA's Balancing Authority Area or a Demand Response Resource may qualify as an On Demand Resource and is consistent with the Supplemental Service policies adopted in the rate case.
Version 4	12/01/09 The following business practice is not being posted for customer comment. This version is updated to reflect changes as a result of the elimination of sheltering. It will be reposted on the Business Practices web page prior to December 1, 2009.

Version 3	<p>9/4/07, V3 The following revisions have been made: • Incorporated CBPI Bulletin 1 - Transmission Account Building, CBPI Bulletin 5 -E-Tag Equals A Transmission Schedule, CBPI Bulletin 11 - E-Tag Timing Validations. The following sections and/or steps of this Business Practice were revised to incorporate the new process described in the CBPI Bulletins referenced above: • Step 3.3 - Revised to include the requirement to establish a RODS¹ Account prior to the Preschedule day • Step 3.4 - Revised to include the requirement to submit an E-Tag when setting aside On Demand Rights • Step 3.4.1 - Added the requirement that the Transmission Profile must reflect the maximum transmission called upon in the hour • Step 3.4.2 - Added the requirement that the Energy Profile must reflect the amount of energy being called on • Step 3.5 - Revised to change the timeframe for submitting schedules from thirty (30) minutes to twenty (20) minutes • Step 3.7.3 - Added the requirement that the Entity² must adjust its Energy Profile if the energy is called on • Step 3.6 - Step in the current Business Practice was replaced by Step 3.4 • Step 3.8.2 - Added the requirement that the Entity must adjust its Energy Profile if the energy is called on • Step 3.11 - Step in the current Business Practice was replaced by Step 3.10 • Step 3.15 - Step in the current Business Practice was replaced by Step 3.4 • Step 4.1 - Revised to remove requirement for setting aside capacity for ODR in an account with a 4N product • Step 4.2 - Revised to include the requirement to establish a RODS Account prior to the Preschedule day • Step 4.3 - Revised to include the requirement to submit an E-Tag when setting aside On Demand Rights • Step 4.3.1 - Added the requirement that the Transmission Profile must reflect the maximum transmission called upon in the hour • Step 4.3.2 - Added the requirement that the Energy Profile must reflect the amount of energy being called on • Step 4.4 - Revised to change the timeframe for submitting schedules from thirty (30) minutes to twenty (20) minutes • Step 4.5.3 - Added the requirement that the Entity must adjust its Energy Profile if the energy is called on • Step 4.6.3 - Added the requirement that the Entity must adjust its Energy Profile if the energy is called on • Step 4.7 - Step in the current Business Practice was replaced by Step 4.7 in the revised Business Practice • Step 4.8 - Step in the current Business Practice was replaced by Step 4.3 The following sections and/or steps of this Business Practice were revised to incorporate non-CBPI related revisions: • Steps 2.1 and 2.2 - Deleted definitions for D Account and U Accounts because Customer is no longer required to identify these accounts when submitting schedules • Steps 2.1 and 2.5 - Added the definitions for Energy and Transmission Profiles • Step 2.2 - Replaced “control area” with “other party” and deleted remaining sentence. • Step 3.1 - Deleted “See Section 6 of this Business Practice” due to the related business practice already being stated in the step • Step 3.7 - Replaced the term “U Account” with “ODR” to update terminology to be consistent with information included in the E-Tag • Step 3.7, 3.7.1 and 3.7.2 - Included activating ODR when resource and load are outside BPA’s Balancing Authority Area as in Step 4.5 - 4.5.2 of the current business practice • Steps 3.7.1 and 3.7.2 - Revised to include the requirement that the Entity schedule by phone • Step 3.7.2 - Replaced the phrase “U Account activation” with “ODR schedule” to update accuracy • Step 3.8 - Replaced the term “U Account” with “ODR” to update accuracy • Step 3.8.1 - Revised to include the requirement that the Entity schedule by phone and added</p>
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¹Real-Time Operations Dispatch and Scheduling System. An electronic interface used by Transmission Services to dispatch and schedule transmission.

²A load, generator, generation provider, Transmission Customer, or other party.

	<p>“ODR schedule” to provide clarity and replaced the phrase “U Account activation” with “ODR schedule” to update accuracy • Step 3.9 - Added “schedule” and “Transmission Profile” to the sentence for clarification • Step 3.13 - Deleted reference to a methodology • Step 4.7 - Replaced “4N Account” with “Transmission Profile” for accuracy Transmission Services also replaced the following terms throughout the Business Practice: • TBL is now referred to as Transmission Services • Pre-Schedule is now referred to as Preschedule • Section is now referred to as Step • Tariff is now referred to as OATT • Transmission Customer (Customer) now referred to as Entity in this Business Practice only • D Account is now referred to as Transmission Profile • U Account is now referred to as Energy Profile BPA Control Area is now referred to as BPA’s Balancing Authority Area</p>
Version 2	<p>1/20/06 This revision adds Section 4 - ODR Schedules Not Using FCRTS Capacity; and clarifies Section 5, by additional information on Limitations for On Demand Rights. 08/09/05 Version 2.0: substantial revision reflecting changes to the Transmission business and the operating environment. This Business practice replaces the now obsolete Business Practice: “Reserve Power Products”</p>
Version 1	<p>04/16/2004 Draft document - revised name to Variable Power Products (VPP) 09/26/2001 Original version posted.</p>