

On Demand Resource Scheduling

BPA Transmission Business Practice

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This Business Practice sets forth BPA’s policy for scheduling an On Demand Resource on existing transmission rights.

An “On Demand Resource” is: A resource that is capable of responding to a signal to change operating levels either up or down within the delivery hour that is also:

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

For more information, visit the [BPA Transmission Business Practices page](#) or submit questions to techforum@bpa.gov.

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A. General Principles

1. A Transmission Customer 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, including specifying technical requirements that must be met.
2. A Transmission Customer may submit more than one On Demand Resource schedule 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 the schedules are for third party supply of balancing reserves or a NWPP RSG Program Documentation qualifying contingency reserve event occurs.
3. The output of an On Demand Resource may be changed up and down once each during the hour of delivery unless a qualifying event under the NWPP RSG Program Documentation occurs.
4. The requesting Transmission Customer may allocate all or part of a FCRTS 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.

5. 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 transmission capacity across BPA's Balancing Authority Area for its On Demand Resource schedule.

B. Submitting an On Demand Resource Schedule

1. A Transmission Customer must submit an E-Tag to set aside transmission for an On Demand Resource.
 - 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 of the e-Tag for that hour.
 - c. The Energy Profile 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. The portion of the Transmission Demand that has been reserved for On Demand Resource scheduling cannot be resold or reassigned.
4. 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. Activating an On Demand Resource

1. To activate/deactivate an On Demand Resource during the Operating Hour, including schedules for third party supply of balancing reserves, the Transmission Customer must update the energy profile on the e-Tag with start time, stop time, and duration of the transmission ramp
 - a. For third party supply of balancing reserves, all within-hour adjustments (up or down) will have a transmission ramp duration of ZERO minutes
2. Activation of an On Demand Resource may occur:
 - a. Across the top of hour ramp from XX:50 to XX:10
 - b. Via a within-hour adjustment to the Energy Profile
3. Deactivation of an On Demand Resource will always be to zero and may occur:
 - a. As a ramp out over the last 10 minutes of the hour from XX:50 to XX:60
 - b. Via a within-hour adjustment to zero of the Energy Profile
4. An On Demand Resource may start an hour partially loaded, which will ramp in across the top of hour ramp from XX:50 to XX:10. One additional adjustment in the energy profile up and down (to zero) is allowed within-hour.

D. Limitations

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.
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. An On Demand DEC Resource is an On Demand Resource where the Transmission Customer has the right to activate the Resource to move power from a Centroid to a Point of Delivery.
4. An On Demand DEC Resource may not be used to effect an arbitrage transaction through a Centroid by delivering power to that Centroid from a resource other than the resource or load for which balancing reserves are being supplied at the same time the On Demand DEC Resource is deployed.
5. Transmission Services is the Path Operator of the Northwest AC Intertie (NWACI) North of the California-Oregon Border. An On Demand Resource over the NWACI, without regard to whose transmission rights are used, must be monitored and operated through BPA's Balancing Authority Area.
6. On Demand Resource schedules or other capacity schedules are not permitted on the DC Intertie.
7. Real-time pro rata curtailments of transmission capacity that is being used to affect an On Demand Resource schedule will be calculated based upon the Transmission Profile. The resulting On Demand Resource schedule curtailment will be communicated via the revised e-Tag from BPA indicating the new maximum allowable On Demand use.