

Business Practice #39: Electronic Tagging of Reserves (“e-Tags”)

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Effective: January 1, 2021

Revision No.: 6.0

NOTICE

A redline version showing the latest revision to this business practice is available at:

<https://www.oasis.oati.com/woa/docs/PPW/PPWdocs/BP39red.pdf>

Policy Reference

PacifiCorp’s Open Access Transmission Tariff (“OATT”), Schedule 5 (“Operating Reserve – Spinning Reserve Service) and Schedule 6 (“Operating Reserve – Supplemental Reserve Service).

Definitions

The following definitions and those currently contained in the OATT, North American Electric Reliability Corporation (“NERC”) Reliability Standards, North American Energy Standards Board (“NAESB”) Business Practice Standards and the NAESB Electronic Tagging Functional Specification document, and Western Electricity Coordinating Council (“WECC”) Regional Criteria are required for this business practice.

Capacity e-Tag – A tag type used for the specific purpose of importing operating reserves. A Capacity e-Tag will define a level of transmission capacity set aside for the use of operating reserve transfers, mid-hour, when required. Available Transfer Capability (“ATC”) in the opposite direction to an established and tagged Capacity e-Tag will not be incremented for firm and non-firm use for the duration of the e-Tag. Capacity e-Tags are required to be activated upon contingency with zero ramp durations.

Dynamic e-Tag - A dynamic schedule is scheduled using an expected value but the actual energy transfer is determined in real time by separate communications external to the e-Tag system. The Dynamic e-Tag should contain the expected average energy in the energy profile and contain the maximum expected energy in the Transmission Allocation prior to the operating hour. The energy profile of the Dynamic e-Tag(s) must be adjusted by the e-Tag Author to the actual interchange value within 10 minutes after completion of the operating hour using values obtained from a common agreed on source.

Purpose

The purpose of this business practice is to define the process for the use of e-Tags (both Capacity and Dynamic e-Tags) to deliver operating reserves across posted paths. This business practice applies to all Transmission Customers unless explicitly contradicted by contract terms.

Practice

The following are the requirements of PacifiCorp, for Transmission Customers that wish to self-supply or to arrange for third-party purchase of Schedule 5 – Operating Reserve – Spinning Reserve Service and Schedule 6 – Operating Reserve – Supplemental Reserve Service. PacifiCorp requires that the self-supplied or third-party supplied Ancillary Services satisfy the requirements of this business practice, Attachment U in the PacifiCorp OATT, and satisfy the relevant reliability standards of NERC or any successor organization.

Request for e-Tag:**Capacity e-Tag:**

Transmission Customers may utilize Capacity e-Tag to supply Schedule 5 and 6 services with resource located externally to the PacifiCorp Balancing Authority Area by selecting Capacity as the transaction type.

Dynamic e-Tag:

Transmission Customers may utilize a Dynamic e-Tag to supply Schedule 5 and 6 services with resources located externally to the PacifiCorp Balancing Authority Area by applying to, and meeting requirements for, use of a Dynamic e-Tag. The application process is explained in Business Practice #25.

Use of e-Tags by Type:

PacifiCorp will communicate the reserves needed to respond to a contingency event by sending an automatic signal of the reserve amount to the Transmission Customer. During a contingency event, the amount of Schedule 5 and 6 reserves called upon for each self-supplying Transmission Customer will be calculated as follows:

$$\text{(Customer scheduled self-supply / Total PacifiCorp BAA (PACE or PACW) Contingency Reserve Obligation) * Generation Loss}$$

If the calculation results in a fraction of a MW, then the resulting fraction or decimal will be rounded up to the nearest MW.

Capacity e-Tags:

The following information will be required to demonstrate the self-supply or third-party purchase of spinning reserve service for External Resources using a Capacity e-Tag:

1. During periods within the hour when contingency reserves are required, the Transmission Customer must submit an adjustment of the energy profile on the e-Tag reflecting the amount of energy flow anticipated for the balance of the hour and subsequent hour. The adjustment must be made within 7 minutes upon the need to call on spinning or non-spinning reserves.

2. Transmission Customers who self-supply or arrange for third-party purchase of ancillary services (i.e. spinning or supplemental reserves) must keep PacifiCorp informed of any change in their ability to supply the required ancillary services. PacifiCorp will consider an advance adjustment or withdrawal of the Transmission Customer's previously submitted Capacity e-Tag as such notification.

Dynamic e-Tags:

The following information will be required to demonstrate the self-supply or third-party purchase of spinning reserve service for External Resources using a Dynamic e-Tag:

1. The generating resource Balancing Authority must have the ability to provide an automated after the fact e-Tag adjustment within 30 minutes following the completion of the operating hour where the spinning or non-spinning reserve service was deployed. The e-Tag shall use the value obtained from a common agreed on source, and contingent on the transmission path used for the Dynamic e-Tag, the e-Tag data will be submitted into the CAISO EIM as part of the base schedules for interchange.
2. Transmission Customers who self-supply or arrange for third-party purchase of ancillary services (i.e. spinning or supplemental reserves) must keep PacifiCorp informed of any change in their ability to supply the required ancillary services. PacifiCorp will consider an advance adjustment or withdrawal of the Transmission Customer's previously submitted Dynamic e-Tag as such notification.

Specification of Reserve Type

When e-Tagging reserves, please include one of the following in the comment field to identify the specific type of reserve being e-Tagged:

- RES-SPIN-PUR = Purchased Spinning Reserves
- RES-SPIN-SP = Self-Provided Spinning Reserves
- RES-NS-PUR = Purchased Non-Spinning Reserves
- RES-NS-SP = Self-Provided Non-Spinning Reserves

Contacts for Assistance: businesspractices@pacificorp.com

Revision History

Version	Date	Change Summary
6.0	01/01/21	Updated e-Tags used to support an automated self-supply process and removed the use of a capacity e-tag for regulation self-supply.
5.0	12/13/13	Added bullet to explain to Self-Supplying Customers what to do if they lose their ability to Self-Supply
4.0	11/21/12	Revised to add further clarity and formatted the business practice to standard template. Notice section updated with new web OASIS link.
3.0	9-24-10	Per customer comment, removed bullet under "Use of Capacity e-Tags" section that allowed intra-hour e-Tag adjustments to not be required for use internal to PacifiCorp Balancing Area for certain uses

2.0	7-2-09	“Specification of Reserve Type” section
1.0	7-8-08	No changes made to draft – Post to OASIS
1.0	5-12-08	Modification to eliminate capacity reservations and re-direct requirements. Use of capacity tags is substituted.
0.0	3-21-08	

