



## Business Practice: Intra-hour Transmission Scheduling

### DOCUMENT

**Effective: 11/12/13**

Posted: 11/4/13

Last Update: 11/4/13

Revision No: 0

### INTRA-HOUR BUSINESS PRACTICE

#### 1. Purpose

Implements intra-hour scheduling utilizing 15 minute scheduling intervals as a result of FERC Order 764, by establishing procedures for scheduling transmission service which enable more timely and accurate responses to real-time changes in loads and resources.

#### 2. Definitions

2.1. Intra-hour Transaction Schedule – A transaction submitted via an e-Tag with intervals of start and stop times of XX:00, XX:15, XX:30, XX:45.

#### 3. Intra-hour Transmission Reservations

3.1 If a Transmission Customer has existing unused firm or non-firm transmission rights on the desired path, then those rights may be used for Intra-hour service.

3.2 A Transmission Customer who does not have sufficient existing transmission rights on a desired path may request hourly transmission service up to 20 minutes prior to the beginning of the scheduling interval for which a transaction is requested to occur.

3.3 Transmission service available includes:

- Hourly Non-Firm PTP Reservation
- Hourly Secondary Network Reservation used to serve Network Load
- Hourly Non-Firm PTP over secondary PORs and PODs from a redirect of an existing Firm Reservation
- Hourly Firm PTP Reservation

3.4 The request shall have the following attributes:

- Increment is “Hourly”
- Request Type is “Original” for Firm or Non-Firm PTP or Secondary Network service, or “Redirect” for Secondary PTP service (as a Redirect of an existing Firm PTP reservation)
- Submitted any time prior to 20 minutes before the start of the first requested scheduling interval within normal firm and non-firm reservation submittal practices.
- Type is “Point-to-Point” or “Network”
- TSR Start Time must be XX:00 of the hour in which the first scheduling interval is transacted
- TSR Stop Time must be YY:00 of the next hour of the hour in which the last scheduling interval is



## Business Practice: Intra-hour Transmission Scheduling

- transacted
- Bid Price when request is submitted must be equal to the offering price on OASIS for the service requested (i.e., no price negotiations)

### 4 Intra-Hour Transaction Schedules/e-Tags

#### 4.1 General

- 4.1.1 The e-Tag must include adequate arrangements for transmission service. TEPC transmission service for Intra-hour scheduling can be provided through existing firm or non-firm transmission reservations or acquired through TEPC approval of a new transmission service request.
- 4.1.2 The e-Tag must pass all validity tests routinely applied to e-Tags
- 4.1.3 The e-Tag must receive the necessary approvals from all counterparties involved in the transaction
- 4.1.4 The e-tag must be submitted no later than 20 minutes prior to the start of the first impacted 15 minute scheduling interval.
- 4.1.5 The e-Tag must specify an effective start time at the beginning of any 15 minute interval or a normal clock hour (i.e., XX:00, XX:15, XX:30, XX:45)  
The effective end time must be the end of any 15 minute interval of a normal clock hour (i.e., XX:00, XX:15, XX:30, XX:45)
- 4.1.6 TEPC reserves the right to deny any e-tags that in our judgment are inconsistent with the safe and reliable operation of the TEPC transmission system or the Bulk Electric System.

#### 4.2 Ramp Rates

- 4.2.1 The top of the hour ramp is 20 minutes.
- 4.2.2 Ramp duration for the 15-minute scheduling intervals will be a 10-minute straddle ramp.

#### 4.3 Pre-emption

- 4.3.1 Firm transmission capacity will preempt e-tags using non-firm transmission capacity if submitted at least 20 minutes before the impacted scheduling interval.
- 4.3.2 Non-firm transmission capacity of a higher priority will preempt e-tags using non-firm capacity of a lower priority if submitted at least 20 minutes before the impacted scheduling interval.

#### 4.4 Curtailments

- 4.4.1 If needed, Reliability Limits (curtailments/reloads) to e-Tags will occur prior to the top of the hour for all scheduling intervals in the upcoming hour that exceed a path scheduling limit.
- 4.4.2 Reliability Limits (curtailments/reloads) will occur within the hour as needed.
- 4.4.3 If submitted at least 20 minutes prior to the start of the impacted scheduling interval, TEPC will approve an Intra-hour transaction schedule that would require the curtailment of a transaction schedule already implemented for the clock-hour.
- 4.4.4 Curtailments required by transmission constraints shall be applied to all transactions following the terms of the OATT.

### 5 Losses



Tucson Electric Power

# Tucson Electric Power Co.

## Business Practice: Intra-hour Transmission Scheduling

5.1 Losses will be charged on the integrated hourly MW value scheduled

### VERSION HISTORY

Version	Date	Change Summary
0 - Draft	11/4/13	Initial Draft Posting for Comment
1 - Draft	11/6/13	Draft Posting for Comment: corrected typing error. Eliminated Intra-hour TSR definition
1 -	11/12/13	Implement Order 764.