

Information Documents are not authoritative. Information Documents are provided for information purposes only and are intended to provide guidance. In the event of any discrepancy between an Information Document and any Authoritative Document(s) in effect, the Authoritative Document(s) governs.

1 Purpose

This Information Document relates to the following Authoritative Documents¹:

- Rate DTS of the ISO tariff, *Demand Transmission Service*; and
- Rate FTS of the ISO tariff, *Fort Nelson Demand Transmission Service*.

The purpose of this Information Document is to explain the coincident metered demand billing volume used in the bulk system charge component of the connection charge in subsection 3 of Rate DTS and Rate FTS.

2 Determination of Coincident System Peak

The AESO recovers the demand-related costs of the bulk transmission system based on the monthly coincident system peaks of the Alberta interconnected electric system (frequently referred to as a “12 coincident peak” or “12CP” approach).

Under the coincident system peak approach, the AESO sums the metered demands for all Rate DTS and Rate FTS market participants in every 15-minute interval during a month. The sum excludes any metered demand that is provided under Rate DOS of the ISO tariff, *Demand Opportunity Service*.

The monthly coincident system peak is the greatest sum in any 15-minute interval in the month. The 15-minute interval in which this peak occurs establishes the interval in which coincident metered demand is measured at each Rate DTS and Rate FTS point of delivery.

The coincident system peak approach was implemented in compliance with Decision 2005-096, issued by the Alberta Energy and Utilities Board on August 28, 2005 on the AESO’s 2005-2006 general tariff application. The coincident system peak approach has been used in the ISO tariff since January 1, 2006.

3 Coincident Metered Demand Billing

The AESO includes coincident metered demand billing information in the bill detail files provided electronically to market participants following each monthly settlement period. The information includes the magnitude and time of the monthly coincident system peak, as well as the coincident metered demand for the Rate DTS or Rate FTS point of delivery.

¹ “Authoritative Documents” is the general name given by the AESO to categories of documents made by the AESO under the authority of the *Electric Utilities Act* and regulations, and that contain binding legal requirements for either market participants or the AESO, or both. Authoritative Documents include: the ISO rules, the Alberta reliability standards and the ISO tariff.

The bill detail file is in comma-separated values (CSV) format and the coincident metered demand information appears as in Figure 3-1 when that file is opened in Microsoft Excel (Excel settings may result in cell formats different from those in the example).

Figure 3-1 Coincident Metered Demand Information in Example Bill Detail File

	Account	Prod Month	...	HSMD	HSMD Date	ACMD	TCMD	Bulk Sys Rate	Bulk Sys Charge
DTS	100012345	Sep-2014	...	7,345.60	2014-09-22 16:45	23.2628	23.2628	\$5,033	\$117,081.67

The columns in the bill detail file contain the following information:

- **Production Month** (Prod Month) — The settlement period to which the bill details apply.
- **Highest System Metered Demand** (HSMD) — The coincident system peak, in MW, for the production month.
- **Date and Time of Highest System Metered Demand** (HSMD Date) — The date and time when the highest system metered demand occurred. The time indicates the start of the 15-minute interval using a 24-hour clock. In the example, the time of 16:45 indicates the 15-minute interval from 16:45:00 to 16:59:59 (from 4:45:00 PM to 4:59:59 PM). Other reports may refer to this interval as “HE 17 interval 4”, which indicates it is the fourth 15-minute interval in the hour ending “17” (the seventeenth hour in the day, from 16:00:00 to 16:59:59).
- **Actual Coincident Metered Demand** (ACMD) — The actual metered demand, in MW, for the point of delivery associated with the market participant’s account, during the 15-minute interval identified for the date and time of highest system metered demand.
- **Tariff Coincident Metered Demand** (TCMD) — The actual coincident metered demand less any metered demand provided under Rate DOS, in MW, during the 15-minute interval identified for the date and time of highest system metered demand.
- **Bulk System Rate** (Bulk Sys Rate) — The rate, in \$/MW, for coincident metered demand in Rate DTS or Rate FTS, as approved by the Alberta Utilities Commission to be effective during the production month.
- **Bulk System Charge** (Bulk Sys Charge) — The bulk system charge, in \$, for the account during the production month, calculated as the tariff coincident metered demand multiplied by the bulk system rate.

In the example bill detail file, the coincident system peak for September 2014 occurred on September 22 in the interval starting 16:45 (HE 17 interval 4). During that interval, the coincident metered demand for the account being billed was 23.2628 MW. At a rate of \$5,033/MW, the demand component of the bulk system charge was \$117,081.67.

4 Historical Coincident System Peak Information

As mentioned above, the AESO includes the magnitude and time of the monthly coincident system peak in bill detail files provided to market participants. However, for the convenience of market participants, the AESO has compiled the magnitudes and times of monthly coincident system peaks as a supplement to this Information Document.

The AESO will update and post the *Coincident Metered Demand Supplement* each month when it issues preliminary statements of account on the fifth business day of the month. The AESO will also update and post the *Supplement* when it issues final statements of account on the fifteenth business day of the month. The magnitude and time of the monthly coincident system peak may change between preliminary

and final postings to reflect changes to Rate DTS and Rate FTS metered demands between preliminary and final statements of account.

The magnitude and time of the monthly coincident system peak may also change when interim and final statements of accounts are issued two (2) and four (4) months after the settlement period, respectively, in accordance with section 13 of the ISO tariff, *Financial Security, Settlement and Payment Terms*.

The magnitude and time of the monthly coincident system peak may also change due to post-final adjustments that occur after final settlement. However, post-final adjustments typically affect only the magnitude of the monthly coincident system peak and do not affect the time of the peak. Changes to magnitude, but not time, do not change the bulk system charges to the majority of market participants and the AESO does not issue revised statements of account to all market participants. This may result in the magnitude of the monthly coincident system peak on a market participant's statement of account differing from the coincident system peak included in the *Coincident Metered Demand Supplement*, although the time of the monthly coincident system peak should be the same.

Stakeholders can access the most recent *Coincident Metered Demand Supplement* posting on the AESO website by following the path www.aeso.ca ► Tariff ► Current Tariff ► Tariff Effective October 1, 2013.

5 Forecast Coincident System Peak Information

The sum of metered demands for all Rate DTS and Rate FTS market participants is only available after the end of the month, when revenue meter data is processed for financial settlement. However, other data on the AESO website provides system demand information that indicates when coincident system peaks are likely to occur during a month.

System demand information can be found on www.aeso.ca by following the path Market ► Market Participant Information ► Market & System Reporting. On that webpage, the *Peak Load Forecast Report* provides the day-ahead forecast load as a percentage of monthly peak demand for each hour of the current day and the following six (6) days.

From the Market & System Reporting webpage, Current and Historical Market Reports can also be accessed. In the Current section of those reports, an *Actual Forecast* report can be selected which provides the day-ahead forecast hourly Alberta internal load, in MW, for the current day.

Both the *Peak Load Forecast Report* and the *Actual Forecast* report are based on unreconciled data and are provided for information purposes only. In particular, the MW volumes these reports use include amounts in addition to the sum of the metered demands for all Rate DTS and Rate FTS market participants, such as transmission losses and load served by on-site generating units. As well, these reports provide forecast load information. Actual system load will differ from forecast values.

These reports use an "hour ending" (HE) convention for time, which indicates the end of the one-hour interval using a 24-hour clock. For example, the hour ending "17" indicates the seventeenth hour in the day, from 16:00:00 to 16:59:59 (from 4:00:00 PM to 4:59:59 PM).

Revision History

Posting Date	Description
2015-03-05	Initial release.