SPECIFICATION

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File Format Specification for Transmitter Reconciliation Data File

File Format Specification

Issue 8.0

**This file format specification deals with the data file
required to enable the Ontario *transmitters* to
reconcile the bases for transmission tariff credits.**

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Document Change History

Issue	Reason for Issue	Date
1.0	Unapproved version for Baseline 6.1.	April 2, 2001
2.0	Multiple transmitter support	October 2, 2001
3.0	Post-testing corrections to Multiple transmitter update.	March 20, 2002
4.0	Name and logo changed to *IESO*	June 1 2005
5.0	Add a new version of reports for transmission to ORMS Repository.	March 8, 2006
6.0	Add information that the calculation of transmission charges uses holidays identified by the OEB.	September 10, 2008
7.0	For compliance of the Accessibility for Ontarians with Disabilities Act (AODA)	October 27 2020
8.0	Updated to support market participant readiness in preparation for the RSS project implementation	May 1, 2023

Related Documents

Document ID	Document Title
N/A	

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Table of Changes

Reference (Section and Paragraph)	Description of Change
Section 2.2.5	Added clarification that the *IESO* uses the holidays identified by the OEB for calculating transmission charges.
Section 3	Added details regarding the addition of Resettlement Statements and what documents are to be provided to *Market Participants*.
Section 3.3	Added new section 3.3 detailing the change record.
Appendix A	Added example on the life cycle of a detail item across various settlements.

1. Introduction

1.1 Purpose

The *Transmitter* Reconciliation Data file specified herein is produced as an aid to the *transmitters* to verify that the *transmission tariff* credits reflect the appropriate collection *transmission services charges* from every *transmission customer* at every Transmission Delivery Point as specified by each *transmitter* under Chapter 10 of the *IESO* "Market Rules." This specification deals with the data required to enable each *transmitter* to reconcile the bases for *transmission tariff* credits.

1.2 Scope

This document specifically covers the file structures of the "*Transmitter* Reconciliation Data File" which constitute the details required to enable each *transmitter* to reconcile the bases for *transmission tariff* credits as agreed by the Ontario *transmitters* and the *IESO*. Any additional data necessary for complete reconciliation of the *transmission tariffs* credits will be addressed by audit.

1.3 Who Should Use This Document

This document is intended for the *market participants* who are designated as *transmitters* within the *IESO administered market*. It may also be used by other parties interested in the format of *transmission tariff* related data files, however the *Transmitter* Reconciliation Data File may only be downloaded by designated *transmitters*.

1.4 Conventions

Formal definitions of italicized terms in this document may be found in Chapter 11 of the *IESO* *"Market Rules."*

- End of Section -

2. *Transmission Tariffs (TT)*

2.1   Overview

The *IESO* has the responsibility for collecting *transmission service charges* from entities participating in the *IESO-administered market* and distributing payments received to the *transmitters* entitled to such payments. While certain participants as *transmitters* provide and operate regulated transmission *facilities* in Ontario, the *IESO* directs the operation of the transmission *facilities* that are components of the *IESO-controlled grid*. The *IESO* will collect *transmission services charges* on the basis of the *transmitters'* cost allocation methodology and rate design for the provision of transmission service.

The *IESO Transmission Tariff Demand* Calculator (TTDC) system operates within the *IESO* market systems environment to process measurements from *registered wholesale meters* and provide billing *demand* determinants required for the calculation of Provincial *Transmission Service* charges. The *IESO* Market Information Management (MIM) system provides interchange export schedule data required for the calculation of the *Export Transmission Service* charges. The *IESO* Commercial Reconciliation System uses the billing demand determinants and export schedules as it applies the transmission tariff rates in the *settlement process*.

2.2   Billing Determination - Business Rules

The *IESO* systems and *settlement* processing for *transmission services charges* is governed by and subject to the *transmitters* Transmission Rate Schedules for Provincial *Transmission Service* (PTS) and *Export Transmission Service* (ETS) as established by the *Ontario Energy Board* (*OEB*). These Transmission Rate Schedules provide a complete description of the basis for the billing *demand* determinants and monthly rates used for the PTS charges and the *energy* basis and hourly rate used for the ETS charge. The Transmission Rate Schedules should be obtained from the *transmitter*.

Calculation of *demand* determinants for the PTS charges is based on the methodology outlined in the Transmission Rate Schedule and implementation decisions taken jointly by the *transmitters* and the *IESO* as ordered by the *OEB*. The following provides a synopsis of these implementation decisions or business rules.

2.2.1   Relationship Between *Delivery Points*

Transmission Delivery Points and IESO Defined Delivery Points

Transmission Delivery Points as identified by the *transmitters* under the *OEB* approved Transmission Rate Schedules refer to *facilities* that are directly connected to the *transmitter* owned *transmission system*.

The *IESO* will define two *delivery points* for the purpose of totalizing and loss adjusting *energy* readings at each Transmission Delivery Point identified by the *transmitters*. A *delivery point* will be defined for every Transmission Delivery Point to determine the billing *demand* for transmission *network service* charges. A second *delivery point* will be defined as required to determine the billing demand for line and transformation *connection charges*.

2.2.2   *Demand* based on *Energy* Consumed During the Clock Hour

The *IESO* Revenue Metering System (RMS) will net metering injection and withdrawal channels within each clock hour and report either net withdrawal (W) or net injection (I) values for each clock hour interval (i.e. intervals 1 through 24 each day) for each *delivery point* defined for transmission network charges or transmission *connection charges*.

The TTDC system will use *demand* measurements of *energy* consumed during each clock hour interval as reported by RMS. The TTDC system will treat any hourly interval for which an injection (I) has been reported as a zero demand interval.

All *metering installations* in the Province of Ontario will reference Eastern Standard Time in accordance with the *IESO* "Market Rules" Chapter 6, Section 11.2.

2.2.3   Application of *Physical Allocation Data* (PAD)

Chapter 9 of the "Market Rules*"* provides that *metered market participants* may, for each *delivery point* with respect to which it is the *metered market participant*, submit to the *IESO physical allocation data* (PAD) for allocating *metering data* among *market participants*.

With respect to *delivery points* defined for the purposes of *transmission service charges* the application of PAD will be blocked thus providing unallocated *metering data* for each Transmission Delivery Point as required to support the several *demand* calculations.

2.2.4   Determination of Peak System *Demand*

Peak system demand will be determined for any one hour on any day of a month based on loads excluding *interchange schedules*. *Peak system demand* will be calculated based on the hourly sum of net withdrawal (W) values reported by RMS for each clock hour interval at all *delivery points* defined for transmission network charges.

The *peak system demand* hour will be designated as a clock hour ending on the hour. For example, hour 1 will be the hour ending 0100 hours, hour 2 will be the hour ending 0200 hours, etc.

The TTDC will provide for tie breaking for *peak system demand* intervals selecting the most recent *peak system demand* maximum quantity and interval when such ties occur.

The *peak system demand* date and hour are required for the determination of the *coincident peak demand* for each *delivery point* defined for transmission network charges as governed by the *transmitters* Transmission Rate Schedules for Provincial *Transmission Service* (PTS).

2.2.5   Tie-Breaking for Peak *Demand* Determinants

Network Billing Demand

The charge determinant for *network service* shall be the higher of the hourly *coincident peak demand* during the month and 85% of the customer's *peak period demand* at each *delivery point* defined for transmission network charges in any one hour during the peak period between 7 AM to 7 PM EST on weekdays that are not statutory holidays. For the purposes of calculating transmission charges, the *IESO* uses the holidays identified by the Ontario Energy Board.

The TTDC system will provide for tie breaking between *coincident peak demand* and *peak period demand* selecting the *coincident peak demand* quantity and interval when such ties occur.

Coincident Peak *Demand*

The coincident peak *demand* is defined as the *transmission customer's* demand at each *delivery point* defined for transmission network charges at the *peak system demand* hour as determined per section 2.2.4 above. The demand will be determined monthly.

Peak Period *Demand*

The peak period is the period between 0700 hours to 1900 hours Eastern Standard Time during winter (i.e. during standard time) and 0600 hours to 1800 hours Eastern Standard Time during summer (i.e. during daylight savings time) on weekdays that are not statutory holidays. The *transmission customer's peak period demand* is determined as 85% of the demand at each *delivery point* defined for transmission network charges for any one hour during the peak period on any day of a month.

The TTDC system will provide for tie breaking for *peak period demand* intervals selecting the most recent *peak period demand* maximum quantity and interval when such ties occur.

Connection Billing *Demand*

The charge determinant for *line connection service* and *transformation connection service* shall be the *transmission* customer's monthly non-coincident peak *demand* at each *delivery point* defined for transmission *connection charges*. The non-coincident peak *demand* is defined as the *transmission customer's* maximum hourly demand in any clock hour of the month.

The TTDC system will determine the non-coincident peak *demand* for each *delivery point* defined for transmission *connection charges*. Determination of the appropriate demand charges (either Line Connection and/or Transformation Connection) to be applied to each *delivery point* defined for transmission connection charges will be based on registration data provided by the *transmitter*.

The TTDC system will provide for tie breaking for non-coincident *peak demand* at each *delivery point* defined for transmission *connection charges* selecting the most recent non-coincident peak quantity and interval when such ties occur. Ties for line connection demand and transformation connection demand will be broken separately based on the applicable dates for line connection and transformation connection charges.

2.2.6   *Transmission Customer* and *Transmitter* of Record

Provincial Transmission Service

The *IESO* Market Operation Systems and related procedures provide for change of association of *transmission customers* to each *delivery point* defined for transmission network charges or transmission *connection charges* to occur at midnight on any day of each month.

The *IESO* will bill the *transmission customer* of record at the end of the effective period for each *transmission tariff*. This is treated differently for network and connection tariffs. The following addresses the treatment of *transmission services charges* when association of a *transmission customer* to a *delivery point* is changed during any month.

- *Network Service* Tariff

The TTDC system will anticipate that there will be continuous association of a *transmission customer* to each *delivery point* defined for transmission network charges. The business rule built into the TTDC will assign the *demand* determinant for the network tariff to the *transmission customer* of record on the last calendar day of any month for each *delivery point* defined for transmission network charges. Thus the *network service* charge will be billed to the transmission customer assigned to each *delivery point* defined for transmission network charges as registered with the *IESO* on the last calendar day of the month.

- Connection Service Tariffs – Line and Transformation

The TTDC system will anticipate that there may be discontinuity in the application of the line or transformation tariffs to any *delivery point* defined for transmission *connection charges*. (Such a discontinuity in the application of the either line connection or transformation connection tariffs occurs presumably through the sale of the *transmitter* owned line or transformation asset.) The TTDC system will also anticipate that the *transmission customer* associated to a *delivery point* defined for transmission connection charges may change before the end of a month. (Such a change in association of a transmission customer occurs presumably through the sale of the *facility*.) For these events the TTDC system will determine the connection *demand* determinants for the line and transformation tariffs and assign the line and transformation charges to the appropriate *transmission customer* on the basis of the following business rules:

1) The *demand* determinant for the line connection charge will be assigned to the *transmission customer* of record associated to the *delivery point* defined for transmission connection charges on the last date of the applicability of the line tariff to the *delivery point* defined for transmission connection charges.

2) The *demand* determinant for the transformation connection charge will be assigned to the transmission customer of record associated to the *delivery point* defined for transmission connection charges on the last date of the applicability of the transformation tariff to the *delivery point* defined for transmission connection charges.

3) If the *transmitter* ends the application of the line connection or the transformation connection charges at any one *delivery point* defined for transmission connection charges on different dates in a month, then the demand determinants for each connection charge will be determined on periods of different length, each period ending on the last date of the applicability for each charge.

The *IESO* must receive timely notification when there is a change of ownership of a *facility* or any other commercial change that would result in the need to send the billing for transmission charges to another commercial entity other than the *transmission customer* identified by the *transmitter*. The *IESO* will continue to bill *transmission tariff* charges to the *transmission customer* associated with a Transmission Delivery Point until notice from the *transmitter* of the change to the associated *transmission customer*. Any such new commercial entity must be registered with the *IESO* and maintain the capabilities necessary to act in accordance with the *IESO* "Market Rules."

For all of the above circumstances the *IESO* will not determine the settlement of *transmission tariff* charges between *transmission customers* when ownership is changed during a month. Such *settlement* must be determined as part of the purchase/sale of any such *facility*. It will be the responsibility of the *transmission customer* to settle the end-of-month liability for payment of transmission charges between buyer and seller as part of the closing of the purchase/sale of any facility directly connected to the *transmitter* owned *transmission system*.

Export Transmission Service

The *IESO* Market Operation Systems and related procedures provide for change of association of one *transmitter* to each *intertie metering point* through which interchange energy exports are scheduled.

The *IESO* will collect from each *market participant* exporting *energy* from Ontario the *Export Transmission Service* (ETS) tariff. The ETS collections at each *intertie metering point* will be credited each month to the *transmitter* associated with each *intertie metering point* as registered by the *IESO* on the last calendar day of the month.

- End of Section -

3. *Transmitter* Reconciliation Data File

The following file format specification deals with the data file required to enable *transmitters* to reconcile the bases for *transmission tariff* credits for the following *charge types*.

- *Charge Type* 600: *Network Service* Credit
- *Charge Type* 601: *Line Connection Service* Credit
- *Charge Type* 602: *Transformation Connection Service* Credit
- *Charge Type* 603: *Export Transmission Service* Credit

Settlement statement file data for the above credit *charge types* as produced for the purpose of *settlement* and invoicing is presented as single sums of all respective tariff charges collected by the *IESO*. Details essential for the calculation of *transmission tariff* charges such as *delivery points*, *demand* determinants, et al included in the detail *settlement statement* records for the *transmission tariff* debits charge type*s* 650, 651, 653, and 653 are not presented as part of the summation for *charge types* 600, 601, 602, and 603.

The *Transmitter* Reconciliation Data file specified herein will present the debit charge details and other information to aid the *transmitter* in verifying that the *transmission tariff* credits reflect the appropriate collection *transmission tariff* charges from every *transmission customer* at every Transmission Delivery Point as specified by each *transmitter* under Chapter 10 of the *IESO* "Market Rules." The reconciliation data provided will be limited to the detail data of each transmitter's own *transmission customers*. This data file will include details only for each *delivery point* defined for the purposes of *transmission service charges* for which the *transmitter* is associated the *transmitter* (TRAN) as registered with the *IESO*. Summary records will provide the aggregate collections from *transmission customers* of each of the *transmitters*. These summary records are intended to provide a view of each *transmitter's* contribution to the collections for each Provincial *Transmission Service* pool while protecting the confidentiality of *transmission customer* information by limiting detailed information to the *transmitter* of record for each *delivery point*. Complete reconciliation based on review of all detail data will be accomplished by audit as agreed by the *transmitters* and the *IESO*.

The *Transmitter* Reconciliation Data files will follow the same file naming convention as is used for the other *settlement statement* and settlement data files produced by the Commercial Reconciliation System and presented for the t*ransmitter* to pick up in the Settlement Reports tab of the MIM system.

The *Transmitter Reconciliation* Data File will be produced when a month-end settlement statements for the *Physical Market* is issued to the *transmitter* (TRAN) registered participant with the *IESO*.

As per the Market Rules 9.6.3.6 and 9.6.3.17 additional settlement statements known as Resettlement Settlement Statement (or Recalculated Settlement Statements) are being introduced to the markets. *Transmitter Reconciliation* Data Files will also be issued to applicable participants when month-end resettlement statements are issued.

After the issuance of the *final settlement statement for a trading day*, if a *market participant* has any applicable transaction, whether it be an adjustment to a previous *settlement statement* or a *brand new* transaction, the IESO will issue a *recalculated settlement statement* to the *market participant* for the given *trading day*. However, *market participants* will be given the option to receive a resettlement statement for an applicable *trading day* even if there are no new applicable transactions for the

trading day. The procedure for requesting such statements are described in Section 1.3.3 of *Market Manual 5.7* entitled*, "Settlement Process".*

The *final recalculated settlement statement* will be the last statement issued for the *trading day.* The IESO will issue *final recalculated settlement statements* for every *trading day*, even if there are no changes from the previous *settlement statement* for the *trading day*.

As per the Market Rules 9.3.6c and 9.6.3.17h, at the IESO's sole discretion, it may issue, either in lieu of or in addition to the resettlement settlement statements an *ad hoc recalculated settlement statement* at any time up to and including the scheduled date to issue the *final recalculated settlement statement* for the relevant trading day. At the time of issuing an *ad hoc statement* the IESO will issue the statement as a version of one of the defined settlement statements types (F, R1, R2, R3, R4, R5, R6).

For convenience, two versions of each Transmitter Reconciliation Data File will be made available to *market participants*. The only difference between the versions is the file name (i.e. the content of the files will be identical).

3.1   File Name Format for the File

The file name format for the file available through the Market Participant Interface (MPI) will be as follows:

[transmitter short name**] ['**–**'] [**file type {**'TR'**: Transmitter Reconciliation File}**] ['**–**'] [**statement type {**'P'**: Physical ("real-time" market settlement statement)}**] ['**–**'] [**settlement type {**'P'**: Preliminary or **'F'**: Final or **'R1'**: Resettlement 1, **'R2'**: Resettlement 2 or **'R3'**: Resettlement 3 or **'R4'**: Resettlement 4 or **'R5'**: Resettlement 5 or **'R6'**: Resettlement 6 or **'RF'**: Resettlement Final }**] ['**–**'] [**primary trading date {**YYYYMMDD**}**]**

Example:

> MPShortName-TR-P-P-20010131
> It is the Transmitter Reconciliation Data File
> It relates to the Physical Market.
> It is related to the Preliminary Settlement Statement Transmission Tariff Charges
> It relates to the month of January 2001.

The file name format for the version of the file available through the IESO Reports Site Interface will be as follows:

> **[**security level {**'CNF'**: Confidential**] ['**–**'][**transmitter short name**] ['**–**'] [**file type {**'TR'**: Transmitter Reconciliation File}**] ['**–**'] [**statement type {**'P'**: Physical ("real-time" market settlement statement)}**] ['**–**'] [**settlement type {**'P'**: Preliminary or **'F'**: Final or **'R1'**: Resettlement 1, **'R2'**: Resettlement 2 or **'R3'**: Resettlement 3 or **'R4'**: Resettlement 4 or **'R5'**: Resettlement 5 or **'R6'**: Resettlement 6 or **'RF'**: Resettlement Final }**] ['_'] [**primary trading date {**YYYYMMDD**}**] ['_'] [**version number identifying whether this report file was regenerated **'v1'] ['**.txt**'**]

Example:

> CNF-MPShortName_TR-P-P_20010131_v1.txt
> It is the Transmitter Reconciliation Data File
> It relates to the Physical Market.
> It is related to the Preliminary Settlement Statement Transmission Tariff Charges

It relates to the month of January 2001.
As version "1" this file is the original run for that date.

Each *Transmitter* Reconciliation Data file is composed of five sections:

1. The first of these sections is a header record providing information such as statement type and primary trading date.

2. The second section provides summary information relating to each *transmitter*'s contribution to each of the *demand* based tariff pools (i.e. the sums of *charge types* 650, 651, and 652 from *transmission customers* associated with each *transmitter*). All active *transmitters* are included in these records.

3. The third section is the detail for *demand* based charges (i.e. *charge types* 650, 651 and 652) that lists each PTS *transmission tariff* charge incurred by all *market participants* and any "Per Unit" adjustments to the PTS *transmission tariff* charges.

4. The fourth section is the detail for export transmission based charges (i.e. *charge type* 653) that lists each ETS *transmission tariff* charge incurred by all *market participant*s and any "Per Unit" adjustments to the ETS *transmission tariff* charges.

5. The fifth section includes manual line items entered by the *IESO* related to the *transmission tariff* PTS and/or ETS charges (*charge types* 650, 651, 652, and 653) for all *market participants*.

The following describes each of the data fields in the *Transmitter* Reconciliation Data File. All data files are plain ASCII files with data fields delimited by the 'pipe' symbol (|). Two consecutive rows (or records) are separated by a carriage return.

3.2   *Transmitter* Reconciliation Data File Header Record

This record will supply information that can be used to identify the contents of the *Transmitter* Reconciliation Data file.

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'H'	Indicates the type of record as a Header Record
Market Participant ID	Number	15	NNNNNN	The *transmitter - market participant's* unique identifier
Primary Trading Date	Date	N/A	DD-MMM-YYYY	The specific trading date for which the statement is being created
File Type	Varchar	2	'TR'	Indicates the type of file as a *transmitter* Reconciliation data file
Statement Type	Varchar	1	'P'	This will always be 'P' indicating that the data pertains to the *physical market*.

Field	Type	Max Field Length	Domain	Description
Settlement Type	Varchar	1	'P',' F', 'R1', 'R2', 'R3', 'R4', 'R5', 'R6', 'RF'	Indicates the type of *settlement* set: preliminary, final one of the resettlement statements or a resettlement final statement

3.3 *Transmitter* Reconciliation Data File Change Record

These records provide information to the market participant if the current datafile has a change from a previous issued data file for the trade day. A change constitutes adjustment or first time transaction that appear on the current data file. By default, a *preliminary* data files will be "NO CHANGE" since this is the first statement being issued to the participant for a given *trading day*.

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	2	'CH'	Indicates the type of record as a Change Record
Change Type	Varchar	12	'CHANGE'	Indicates that there is change in the current data file from a previous issued data file for the trade day
Change Type	Varchar	12	'NO CHANGE'	Indicates that there is no change in the current data file from a previous issued data file for the trade day

3.4   *Transmission Tariff Demand Based Charges (Summary)*

Settlement File Summary Records

These records provide summary information relating to each *transmitter's* contribution to each of the demand based tariff pools. Summary records are produced for *all* active *transmitters* in the system.

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	2	'SD'	Indicates the type of record as a summary record for *demand* based charges.
Charge Type	Number	4	NNNN	Code indicating the type of *settlement* (*Demand* based charges are 650, 651 and 652) - no leading zeros
Transmitter Short Name	Varchar	12		The Short Name of the *transmitter*
Transmission Debit Charge	Number	20,2		The Sum of the charges of the type listed in the *charge type* Field whose *transmitter* is specified in the *transmitter* Short Name field.
Demand Quantity	Number	11,3		The Sum of the *demand* quantities for charges of the type listed in the *charge type* field whose *transmitter* is specified in the *transmitter* Short Name field
Price	Number	10,5		Tariff Price used for the *charge type* specified in the *charge type* field and the *transmitter* specified in the *transmitter* Short Name field.
Proportionality Factor	Number	10,5		Proportionality Factor used for the *charge type* specified in the *charge type* field and the *transmitter* specified in the *transmitter* Short Name field,

3.5   *Transmission Tariff Demand Based Charges (Detail)*

Settlement File Detail Records

These records provide the details of each individual *settlement* line item that is created by the Commercial Reconciliation system in relation to the *demand* based *transmission tariff charge types* 650, 651 and 652.

The trading date of each charge will be the last trading date of the month. The trading hour will always be zero. The *Demand* Date and Hour are provided as separate columns.

When a transaction is computed for the first time, in any settlement statement, it will have a settlement type of 'P'. When a *final* settlement statement is issued (the next statement after preliminary), all records from the *preliminary settlement statements* will be represented by a settlement type of 'C'.

Any adjustments made to a transaction from a previous settlement statement, will have a settlement type of 'A' in the latest settlement statement. When the next settlement statement is issued for the trading day, the settlement type is updated to represent where the adjustment originated. This also applies to first time transaction that do not appear in a preliminary settlement statement. For example, there was an adjustment and first time transaction made at the *final settlement statement*. There will exist a detail record with a settlement type of 'A' to represent the adjustment and a detail record with a settlement type of 'P' to represent the first time transaction. When the next settlement statement is issued (Resettlement 1 statement for example) the settlement type for both detail records will update to an 'F' to document that the transactions first appeared in the final settlement statement.

In the event the IESO issues an ad hoc resettlement statement and if a transaction is adjusted multiple times it will be represented as an <u>aggregated detail line</u> item in the next settlement statement for the trading day. This situation can occur because the IESO will issue an *ad hoc statement* as a version of one of the defined settlement types (R1 to R6). For example, a transaction is adjusted in the *Resettlement 1* settlement statement, it will be represented with a settlement type of 'A'. The IESO then issues an *ad hoc* resettlement statement which will be another version of the *Resettlement 1* settlement statement. In the *ad hoc* resettlement statement, the adjusted transaction will be represented with a settlement type of "R1" and the new adjusted amount will be represented with a settlement type of "A". The *ad hoc* resettlement statement is represented as a new version of the *Resettlement 1* settlement statement. When the next settlement statement is issued that is not an *ad hoc* statement (Resettlement 2 settlement statement for example), the *amounts* (column 6) and *tax amounts* (column 35) from first adjustment and the ad hoc adjustment will be aggregated to represent the total settlement amounts with the remainder details coming from the latest issued settlement statement. Please refer to Appendix A for more details and an example of the settlement detail life cycle.

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	2	'DD'	Indicates the type of record as a detail record for *demand* based charges.
Charge Type	Number	4	NNNN	Code indicating the type of *settlement* (*Demand* based charges are 650, 651 and 652) - no leading zeros
Trading Date	Date	N/A	DD-MMM-YYYY	The specific trading date of the line item
Trading Hour	Number	2	0-24	The specific hour of the line item (0 for a non-hourly *charge type*)
Trading Interval	Number	2	0	The specific Trading Interval of the line item (0 for *transmission tariff* charges)
Settlement Amount	Number	20,2		*Settlement amount* for the indicated detail record net of GST
Zone ID	Varchar	16	AAAA	Zone ID for the detail record
Transmission Delivery Point ID	Number	12	NNNNNN	The *delivery point* ID assigned by the *IESO* for transmission network charges or transmission *connection charges*. The establishment of such *delivery points* is subject to the *meter point* documentation provided by the *transmission customer's metering service provider* subject to Chapter 10 of the *IESO* "Market Rules". The *delivery point* ID is a 6-character identifier.
Transmission Delivery Point Name	Varchar	32		The *delivery point* name assigned by the *IESO* for transmission network charges or transmission *connection charges* related to the *delivery point* ID.
Transmission Customer – Short Name	Varchar	12		*Transmission Customer* Short Name related to the *delivery point* assigned by the IESO for transmission network charges or transmission *connection charges*.
Settlement Type	Varchar	1	'P',	Preliminary record on a *preliminary settlement statement or a first time transaction that is to appear on a non preliminary settlement statement*
Settlement Type	Varchar	1	'F'	Represents an adjustment or a first time transactions that occurred in the *final settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the

Field	Type	Max Field Length	Domain	Description
				previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'C'	Preliminary settlement statement record (*Settlement* Type = 'P' only on preliminary statements) that has been copied from the preliminary onto the *next settlement statement*.
Settlement Type	Varchar	1	A	Represents an adjustment in the current statement to a transaction that appeared in a previous issued settlement statement for the trading day. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the *previous issues settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R1'	Represents an adjustment or a first time transactions that occurred in a version a *Resettlement 1 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R2'	Represents an adjustment or a first time transactions that occurred in a version a *Resettlement 2 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R3'	Represents an adjustment or a first time transactions that occurred in a version of a *Resettlement 3 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R4'	Represents an adjustment or a first time transactions that occurred in a versions of a *Resettlement 4 settlement*. Values in the

Field	Type	Max Field Length	Domain	Description
				Settlement Amount and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R5'	Represents an adjustment or a first time transactions that occurred in a version of a Resettlement *5 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R6'	Represents an adjustment or a first time transactions that occurred in a version of a *Resettlement 6 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'RF'	Represents transactions that occurred in the *Resettlement Final settlement* when the resettlement final settlement statement is issued for the trading day. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Billable Quantity	Number	11,3		Relevant peak demand quantities for a single *delivery point* (kW)
Transmission Tariff Rate	Number	10,5		*Transmission Tariff* Rate ($/kW)
Demand Date	Number	8	yyyymmdd	Indicates the *trading day* within the *billing period* from which the *demand* quantity for the relevant *transmission tariff* was used.
Demand Hour	Number	2	NN	Indicates the *demand* hour within the demand date from which the demand quantity for the relevant *transmission tariff* was used.

Field	Type	Max Field Length	Domain	Description
Tax rate	Number	5,4		GST rate applied to *settlement amount*
Tax amount	Number	11,2		GST dollar amount that corresponds to the *settlement amount*
Transmitter Short Name	Varchar 2	12		The short name of the *transmitter*

3.6 *Transmission Tariff* Export Based Charges *(Detail)*

Settlement File Detail Records

These records provide the details of each individual *settlement* line item that is created by the Commercial Reconciliation system in relation to the export based *transmission tariff charge type* 653.

The trading date of each charge will be the last trading date of the billing cycle. The trading hour will always be zero.

On a preliminary statement, original line items will have *settlement* type 'P'. On a final statement, original line items will have settlement type 'C', and adjustments will have settlement type 'F'.

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	2	'ED'	Indicates the type of record as a detail record for export based charges.
Charge Type	Number	4	NNNN	Code indicating the type of *settlement* (only for *charge type* 653) - no leading zeros
Trading Date	Date	N/A	DD-MMM-YYYY	The specific trading date of the line item (end date of billing cycle)
Trading Hour	Number	2	0-24	The specific hour of the line item (0 for a non-hourly *charge type*)
Trading Interval	Number	2	0	The specific Trading Interval of the line item (0 for *transmission tariff* charges)
Settlement Amount	Number	20,2		*Settlement amount* in dollars for the indicated detail record net of GST
Intertie Metering Point Zone	Varchar	16	AAAA	Zone ID for the Tie Point ID
Zone ID	Varchar	16	AAAA	Zone ID of the CSP for the detail record
Location ID	Number	12	NNNNNN	Location ID of the CSP

Field	Type	Max Field Length	Domain	Description
CSP Sink - Delivery Point Name	Varchar	32		*Delivery point* Name related to the *delivery point* ID of the CSP Sink for the Export Transmission transaction.
Market Participant – Short Name	Varchar	12		*Market participant* - Short Name to whom the export transaction is related.
Settlement Type	Varchar	1	'P',	Preliminary record on a *preliminary settlement statement or a first time transaction that is to appear on a non preliminary settlement statement*
Settlement Type	Varchar	1	'F'	Represents an adjustment or a first time transactions that occurred in the *final settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'C'	Preliminary settlement statement record (*Settlement* Type = 'P' only on preliminary statements) that has been copied from the preliminary onto the *next settlement statement*.
Settlement Type	Varchar	1	A	Represents an adjustment in the current statement to a transaction that appeared in a previous issued settlement statement for the trading day. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the *previous issues settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R1'	Represents an adjustment or a first time transactions that occurred in a version a *Resettlement 1 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R2'	Represents an adjustment or a first time transactions that occurred in a version a *Resettlement 2 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a

Field	Type	Max Field Length	Domain	Description
				revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R3'	Represents an adjustment or a first time transactions that occurred in a version of a *Resettlement 3 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R4'	Represents an adjustment or a first time transactions that occurred in a versions of a *Resettlement 4 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R5'	Represents an adjustment or a first time transactions that occurred in a version of a Resettlement *5 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R6'	Represents an adjustment or a first time transactions that occurred in a version of a *Resettlement 6 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'RF'	Represents transactions that occurred in the *Resettlement Final settlement* when the resettlement final settlement statement is issued for the trading day. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.

Field	Type	Max Field Length	Domain	Description
Billable Quantity	Number	11,3		Sum of SQEW quantities (MWh) for a **single** ZONE ID for the *market participant* engaging for all export transactions conducted by that market participant at that location during the month (billing cycle). As a result of this arrangement, a separate detail record for *charge type* 653 will appear for each ZONE ID where the *market participant* has conducted an export transaction during the month.
Transmission Tariff Rate	Number	10,5		*Transmission Tariff* Rate ($/MWh)
Tax rate	Number	5,4		GST rate applied to *settlement amount*
Tax amount	Number	11,2		GST dollar amount that corresponds to the *settlement amount*
Transmitter Short Name	Varchar2	12		The short name of the *transmitter*

3.7   *Transmission Tariff* Manual Line Item Records

These *transmission tariff* related records identify each individual manual line item that has been entered by the *IESO* for a *market participant*. Manual line items will be included in the statement if the affected date is the trading date of the statement or if the affected date is less than the trading date of the statement.

These records will only include the following *charge types*:

- Transmission Delivery Point related *charge type*s 650, 651 and 652; and

- Export transmission *charges type* 653.

The credit *charge types* 600, 601, 602 and 603 will not be included in these records.

Transmission Tariff Manual Line Items can be entered at any time. They are not linked to the normal monthly aspect of *demand* based charges (650, 651 or 652) or the *billing period* aspect of export based charges (653). Therefore these line items will show up in the appropriate *Transmitter* Reconciliation Data file relative to the Manual Line Item being included on a *settlement statement*.

Manual line items will be entered as balanced pairs (charges and credits).

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	2	'MD'	Indicates the type of record as a manual line item detail record
Charge Type ID	Number	4	NNNN	Code indicating the type of settlement (Demand based charges are 650, 651 and 652; Export based charges are 653) - no leading zeros
Trading Date	Date	N/A	DD-MMM-YYYY	The effective date of the manual line item as entered by the IESO.
Trading Hour	Number	2	0-24	The specific hour of the manual line item (0 for a non-hourly charge)
Trading Interval	Number	2	0-12	The specific Trading Interval of the manual line item (0 for a non-hourly or hourly charge)
Adjustment Amount	Number	11,2		Settlement amount in dollars for the indicated manual line item
Zone ID	Varchar	16	AAAA	Zone ID for the manual line item
Location ID	Number	12	NNNNNN	Location ID for the manual line item
Transmission Delivery Point Name	Varchar	32		The delivery point name assigned by the IESO for transmission network charges or transmission connection charges related to the delivery point ID.
Market Participant – Short Name	Varchar	12		Market participant - Short Name to whom the PTS or ETS charge applies.
Settlement Type	Varchar	1	'P'	Preliminary record on a *preliminary settlement statement or a first time transaction that is to appear on a non preliminary settlement statement*
Settlement Type	Varchar	1	'F'	Represents an adjustment or a first time transactions that occurred in the *final settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'C'	Preliminary settlement statement record (*Settlement* Type = 'P' only on preliminary statements) that has been copied from the preliminary onto the *next settlement statement*.
Settlement Type	Varchar	1	A	Represents an adjustment in the current statement to a transaction that appeared in a previous issued settlement statement for the trading day. Values

Field	Type	Max Field Length	Domain	Description
				in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the *previous issues settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R1'	Represents an adjustment or a first time transactions that occurred in a version a *Resettlement 1 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R2'	Represents an adjustment or a first time transactions that occurred in a version a *Resettlement 2 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R3'	Represents an adjustment or a first time transactions that occurred in a version of a *Resettlement 3 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R4'	Represents an adjustment or a first time transactions that occurred in a versions of a *Resettlement 4 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R5'	Represents an adjustment or a first time transactions that occurred in a version of a Resettlement *5 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a

Field	Type	Max Field Length	Domain	Description
				revised value for other fields represents the total value.
Settlement Type	Varchar	1	'R6'	Represents an adjustment or a first time transactions that occurred in a version of a *Resettlement 6 settlement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Settlement Type	Varchar	1	'RF'	Represents transactions that occurred in the *Resettlement Final settlement* when the resettlement final settlement statement is issued for the trading day. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the previous issued *settlement statement* while a revised value for other fields represents the total value.
Bill Quantity	Number	11,3		Indicates the quantity to be billed
Transmission Tariff Rate	Number	10,5		*Transmission Tariff* Rate Provincial *Transmission Service*: ($/kW) *Export Transmission Service*: ($/MWh)
Tax Rate	Number	5,4		GST rate applied to *settlement amount*
Tax Amount	Number	11,2		GST dollar amount that corresponds to the settlement *amount*
Transmitter Short Name	Varchar	12		The short name of the *transmitter*.
Adjustment Comment	Varchar	256		Describes the manual line item

– **End of Section –**

Appendix A: Data File Detail Life Cycle Example

There could be a situation where an adjustment transaction from one of the scheduled TR data files is further adjusted in the immediate adhoc issuance of the data file. Similar to statement generation, the TR data file for an adhoc settlement will be issued as one of the defined settlement types (F, R1, R2, R3, R4, R5, R6). More information regarding this can be found in Appendix B of IMP_SPEC_0005.

Below are examples on how the detail representation of an item is displayed in the TR data file along with the inclusion of an adhoc issuance of a data file.

Preliminary TR Data File:

The settlement type for all Preliminary are represented by a `P`.

1. Transaction Type	Detail Representation
Preliminary	DD|650|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|P|-2000|0.5|20220111|18|.13|130|ABCD

Final TR Data File:

At Final, all detail items from the Preliminary are represented with a settlement type of `C` and will be represented by a `C` in all future data files when issued. If at Final, there are adjustments to any previous transactions for the trading date than those items are presented in their own detail item with a settlement type of `A`. If there are new or first time transactions at Final, then those transactions are represented with a settlement type of `P`.

Transaction Type	Detail Representation
From Preliminary	DD|650|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|C|-2000|0.5|20220111|18|.13|-130|ABCD
Adjustment in Final	DD|650|31-JAN-2022|0|0|-500|ONZN|123456|LOC123456|EFDH|A|-3000|0.5|20220111|18|.13|-65|ABCD
First Time Items in Final	DD|651|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|P|-2000|0.5|20220111|18|.13|-130|ABCD

Resettlement 1 TR Data File:

In a Resettlement, all detail items from the Preliminary are represented with a settlement type of 'C'. All detail items from the Final that are Adjustments or First time transactions are represented with a settlement type of 'F'. This is to indicate that the detail items first appeared at Final. If in the Resettlement, there are adjustments to any previous transactions for the trading date than those items

are presented with a settlement type of `A`. If there are new or first time transactions in the Resettlement, then those transactions are represented with a settlement type of `P`.

Transaction Type	Detail Representation
From Preliminary	DD|650|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|C|-2000|0.5|20220111|18|.13|-130|ABCD
Adjustments From Final	DD|650|31-JAN-2022|0|0|-500|ONZN|123456|LOC123456|EFDH|F|-3000|0.5|20220111|18|.13|-65|ABCD
First Time from Final	DD|651|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|F|-2000|0.5|20220111|18|.13|-130|ABCD
Adjustment in Resettlement 1 to a detail from Final	DD|650|31-JAN-2022|0|0|-500|ONZN|123456|LOC123456|EFDH|A|-4000|0.5|20220111|18|.13|-65|ABCD
First Time detail in Resettlement 1	DD|652|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|P|-2000|0.5|20220111|18|.13|-130|ABCD

Adhoc TR Data File Represented as a Resettlement 1 (Posted after Resettlement 1 TR Data File and before the Resettlement 2 TR Data File)

In the event that the IESO issues an Adhoc for a trading day, it will process as one version of the defined settlement types (F, R1, R2, R3, R4, R5, R6, RF). For this example, the IESO issued an Adhoc Statement for a trading day as a new version of the Resettlement 1. In this Adhoc statement example, all detail items from the Preliminary are represented with a settlement type of 'C'. All detail items from the Final that are Adjustments or First time transactions are represented with a settlement type of 'F'. Since a scheduled Resettlement 1 was issued, those detail items will be represented with a settlement type of 'R1' in the Adhoc Statement since those items appeared on a Resettlement 1. If in the Adhoc, there are adjustments to any previous transactions for the trading date than those items are represented with a settlement type of `A`. If there are new or first time transactions in the Adhoc Statement, then those transactions are represented with a settlement type of `P`.

Transaction Type	Detail Representation
From Preliminary	DD|650|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|C|-2000|0.5|20220111|18|.13|-130|ABCD
Adjustments From Final	DD|650|31-JAN-2022|0|0|-500|ONZN|123456|LOC123456|EFDH|F|-3000|0.5|20220111|18|.13|-65|ABCD
First Time from Final	DD|651|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|F|-2000|0.5|20220111|18|.13|-130|ABCD
Adjustment from Resettlement 1	DD|650|31-JAN-2022|0|0|-500|ONZN|123456|LOC123456|EFDH|R1|-4000|0.5|20220111|18|.13|-65|ABCD
First Time from Resettlement 1	DD|652|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|R1|-2000|0.5|20220111|18|.13|-130|ABCD
Adjustment in the Ad Hoc statement issued as a version of R1	DD|650|31-JAN-2022|0|0|-500|ONZN|123456|LOC123456|EFDH|A|-5000|0.5|20220111|18|.13|-65|ABCD *This charge was adjusted in the ad hoc statement after it was adjusted in the Resettlement 1 scheduled statement.*
First Time transaction in the Ad Hoc statement issued as a version of R1	ED|653|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|R1|-2000|0.5|20220111|18|.13|-130|ABCD

Resettlement 2 TR Data File:

When a Resettlement 2 is issued and if the trading date included an Adhoc which included multiple adjustments, the adjusted details amounts and tax amounts will be aggregated. With this example, since the Adhoc statement was issued as a version of the Resettlement 1, the settlement type for that detail item will be represented as an R1 in the Resettlement 2 and, since a detail item from the Resettlement 1 already in the Adhoc, the IESO will aggregate the detail line items and represent it as a single detail item in the latest issuance of the data file. The IESO will aggregate the Amounts and Tax Amounts but leave all other columns to represent the latest values.

With this said the following is how the Resettlement 2 will look for items from previous settlement statements for the trading day.

Transaction Type	Detail Representation
From Preliminary	DD|650|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|C|-2000|0.5|20220111|18|.13|-130|ABCD
Adjustments From Final	DD|650|31-JAN-2022|0|0|-500|ONZN|123456|LOC123456|EFDH|F|-3000|0.5|20220111|18|.13|-65|ABCD

Transaction Type	Detail Representation
First Time from Final	DD|651|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|F|-2000|0.5|20220111|18|.13|-130|ABCD
First Time detail in Resettlement 1	DD|652|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|R1|-2000|0.5|20220111|18|.13|-130|ABCD
First Time transaction in the Ad Hoc statement issued as a version of R1	ED|653|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|R1|-2000|0.5|20220111|18|.13|-130|ABCD
Adjustment from Resettlement 1 and Ad Hoc Resettlement	DD|650|31-JAN-2022|0|0|-1000|ONZN|123456|LOC123456|EFDH|A|-5000|0.5|20220111|18|.13|-130|ABCD Notes: *The above is computed considering the following detail items.* *From Resettlement 1 where the A is updated to R1:* DD|650|31-JAN-2022|0|0|-500|ONZN|123456|LOC123456|EFDH|R1|-4000|0.5|20220111|18|.13|-65|ABCD *From Adhoc where the A is updated to R1:* DD|650|31-JAN-2022|0|0|-500|ONZN|123456|LOC123456|EFDH|A|-5000|0.5|20220111|18|.13|-65|ABCD

References

Document Name	Doc ID
IESO "Market Rules"	MDP_RUL_0002
Ontario Energy Board, "Interim Decision and Order" – December 17, 2001	This interim decision addresses four *OEB* docket numbers as follows: RP-2001-0034 RP-2001-0035 RP-2001-0036 RP-2000-0044

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