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IMP_SPEC_0005

SPECIFICATION



Format Specifications for Settlement Statement Files and Data Files

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Issue 43.0

This Technical Interface document describes the format of *settlement statement* files and supporting data files.

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	Amount	
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43.0	Added Ramp-Down CMSC Charges 122, 1051	December 7, 2016

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Related Documents

Document ID	Document Title
IMP_LST_0001	IESO Charge Types and Equations

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Reference (Section and Paragraph)	Description of Change
Section 2.2.1, Table 2-5	Added charge types 122, 1051
Section 2.2.2, Table 2-6	Added charge types 122, 1051
Appendix A, Section A.1.1	Added charge types 122, 1051

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1. Introduction

1.1 Purpose

The *settlement statement* files contain the *settlement amounts* and supporting *settlement* data pertaining to each *charge type* applicable to a given *market participant*. The data contained in those files are generally related to a specific *trading day* or *billing period*, but it may also contain adjusted *settlement amounts* from prior *trading days* or *billing periods*. This file also contains a summary section that aggregates all *settlement amounts* by *charge type* and *trading day*. As a result, the purpose of this document is to communicate the format of these files which will be interest to virtually any *market participant* who is active in one or more of the *IESO-administered markets*.

1.2 Scope

This document specifically covers the file structures of a "*settlement statement* file" and supporting "data file" which constitute a complete *settlement statement* for the real-time for *financial IESO-administered markets*, as described in the *IESO* "Market Rules." This scope is further illustrated in Figure 1.1.

1.3 Who Should Use This Document

This document is intended for *market participants* and any other party that may be interested in the format of *settlement statement* files and/or supporting data files.

1.4 Conventions

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

1.5 General Notes About Statement Files

1.5.1 Relationship to the IESO-Administered Markets

This document describes the structure of two distinct sets of *settlement statements* pertaining to the *IESO-administered markets* as follows:

1. The first set of *settlement statements* pertains to the *real-time market* ("physical market") *settlement amounts* and also other charges such as the *Debt Retirement Charge* (*charge type* 702, 752), *Rural Rate Protection* (*charge types* 703, 753), *Transmission Services Charges* (*charge types* 600, 601, 602, 603, 650, 651, 652, and 653), and the *settlement* of *transmission rights* purchased by *TR participants* (*charge type* 104).
2. The second set of *settlement statements* pertains to the *energy forward market* ("financial market"), which is subject to a functional deferral that will be in effect for a minimum of one year after the *market commencement date* (*Market Rules* ref. Ch. 1 Section 4.4A.3) **AND** the *settlement* of *TR auctions* in the t*ransmission rights* (*TR) market* (*charge type* 52).

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1.5.2 Access

Market participants will download *settlement statements* in electronic, pipe-delimited ASCII text format through the *IESO* Market Information Management (MIM) System.

Market participants may download these files after they are generated by the *IESO* Commercial Reconciliation System (CRS). This process is further detailed in *Market Manual* 5.

1.5.3 Timelines

Each *settlement statement* pertains to a specific *trading day* (the "primary trading date") – although *settlement amounts* appearing on that *settlement statement* may pertain to various other time periods such as a *billing period* (see the Technical Interface document entitled "IESO Charge Types and Equations" for further details).

The issuance of *settlement statements* is based on a *business day* timeline rather than on a calendar day timeline and is specifically governed by:

- The *Settlement Schedule and Payment Calendar* ("Market Rules" ref. Ch. 9 Section 6.2, "Market Manuals Part: 5.1"); and
- Any emergency procedures that may have to be invoked by the *IESO* under the *IESO Market Rules*.

The issuance of *settlement statements* pertaining to the Real Time (RT) Market was further governed by a timeline which is under an interim "functional deferral" detailed in the *IESO* "Market Rules" (ref. Ch. 9, Sections 6.3.18 and 6.3.19) – which has now expired. In summary however, the timelines for the issuance of *settlement statements* described in this document are as follows:

Table 1-1: Settlement Statement Timelines

Item	Date of issuance while functional deferral was in effect for trading days prior to January 2, 2003	Current Settlement Timelines	IESO Market Rules Reference
EFM/TR *Preliminary Settlement Statements*	2 *business days* after the *trading day* it pertains to.	2 *business days* after the *trading day* it pertains to.	9.6.3.1
EFM/TR *Final Settlement Statements*	6 *business days* after the *trading day* it pertains to.	6 *business days* after the *trading day* it pertains to.	9.6.3.3
RT *Preliminary Settlement Statements*	10 *business days* after the *trading day* it pertains to.	10 *business days* after the *trading day* it pertains to.	9.6.3.9
RT *Final Settlement Statements*	22 *business days* after the *trading day* it pertains to.	20 *business days* after the *trading day* it pertains to.	9.6.3.11, 9.6.3.18, and 9.6.3.19

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1.5.4 Settlement Statements Delivered in Electronic Format

Each *business day*, the *IESO* Commercial Reconciliation System (CRS) will generate *settlement statements* for each *market participant* in the *real-time (RT) market*. Another set of *settlement statements* will be produced for *market participants* in the *energy forward market* (EFM) or the *transmission rights (TR) market*: the *preliminary settlement statement* and the *final settlement statement* for each *trading day* for which such *settlement statements* are generated. Each *settlement statement* is composed of one or more electronic files as illustrated in Figure 1-1. The structure of these electronic data files is the subject of this Technical Interface Document.

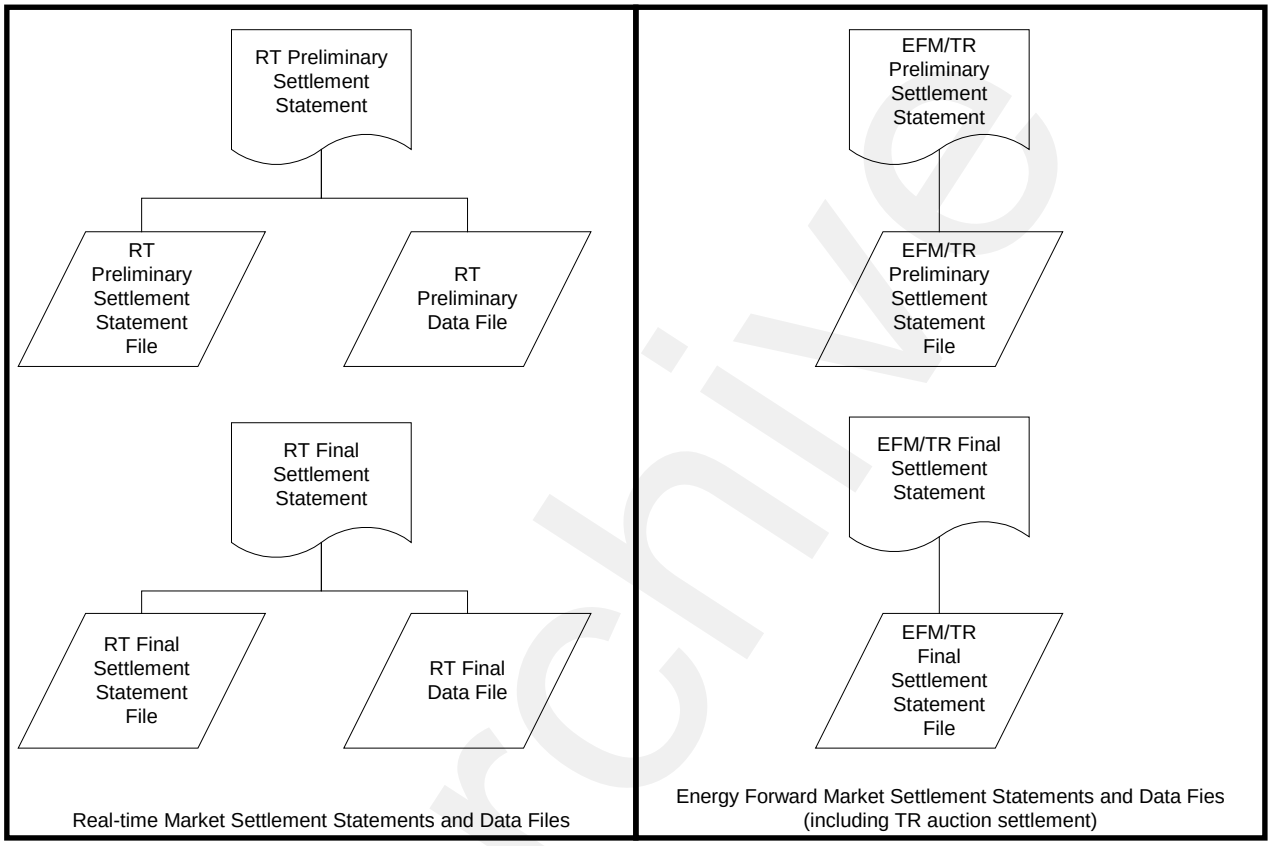


Figure 1-1: Schematic Overview for Settlement Statements and Data Files

There are a few items that the reader should note with respect to the files illustrated in Figure 1-1 as follows:

- the companion data files are issued according to the same timeline as the Statement Files;
- *settlement amounts* owing to the *IESO* will appear as negative numbers;
- *settlement amounts* owing to *Market Participants* will appear as positive numbers;
- all statement files are plain ASCII text files with data fields delimited by the 'pipe' symbol (|). Two consecutive rows (or records) are separated by a carriage return;
- each pair of preliminary and *final settlement statements* for a given primary trading date will have a unique *settlement statement* ID described herein.

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2. – End of Section –Settlement Statement Files

Each preliminary statement file contains the best available settlement data for the *trading day* being settled. Also included in the file may be new settlement line items pertaining to *trading days* prior to the *trading day* to which the *settlement statement* pertains to (i.e. the "primary trading date") but have not been included on any previous *preliminary settlement statement*. No settlement detail line items for prior dates can be included if the final statement for those days have been issued. The *preliminary settlement statement* provides each *market participant* with an opportunity to review *settlement amounts* pertaining to a particular *trading day*. After a predetermined *Notice of Disagreement* filing period (*IESO* "Market Rules" ref. Ch. 9, Section 6.6), a *final settlement statement* is generated.

Each final statement file contains the settlement line items provided in the *preliminary settlement statement* and any adjustment line items to the *preliminary settlement statement*. The calculations will be based on the best available settlement data at the time of settlement for the corresponding *trading day.*

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

> **[**security level {'**CNF**': Confidential**] [**'–'**] [**market participant short name**] [**'_'**] [**file type {'**ST'**: Statement File}**] [**'–'**] [**statement type {'**P'**: Physical ("real-time" market settlement statement)}**] [**'–'**] [**settlement type {'**P'**: Preliminary or **'F'**: Final}**] [**'_'**] [**primary trade date {**YYYYMMDD**}**] [**'_'**] [**version number identifying whether this report file was regenerated '**v1**'**] [**'.txt'**]**

For example: "CNF-HONI_ST-P-P_20010131_v1.txt"

The file contains a confidential report,

The data contained is for HONI – Hydro One Networks Inc.,

It is a Settlement Statement File ('ST'),

It relates to the Physical Market,

It is related to the Final Settlement Statement Transmission Tariff Charges,

It relates to the month of January 2001,

As version is "1" this file is the original run for that date.Each *settlement statement* file is composed of four general sections. The first of these sections is a header record providing information such as statement number, statement type, primary trade date, and the *billing period* total to date. Following this section is a summary section of all charges by *charge type* and trading date. The third section is a detail section that lists each charge incurred by the *market participant* as well as any related charge information. The final section includes all manual line items entered by the *IESO*.

The following is a detailed description of the data fields in the Statement File.

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2.1 General Description of Statement File

2.1.1 Statement File Header Record

This record will supply information that can be used to identify the contents of the *settlement statement* file for the RT market or the *settlement statement* file that contains EFM/TR settlement data.

Table 2-1: Statement File Header Record Description

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 *market participant's* unique identifier
Primary Trade Date	Date	11	DD-MMM-YYYY	The specific trading date for which the statement is being created
Statement ID	Number	15		The numeric ID of the pair of *preliminary* and *final settlement statements* for a given primary trading date
File Type	Varchar	2	'ST'	Indicates the type of file as a statement file (not a data file).
Statement Type	Varchar	1	'P' or 'F'	Indicates the type of market: physical or financial
Settlement Type	Varchar	1	'P' or 'F'	Indicates the type of settlement set: preliminary or final.
Total Due Amount	Number	20,2		The amount owed to the *IESO* by the *market participant* or owed to the *market participant* by the *IESO* on the specified trading date.
Billing Period Total to Date	Number	20,2		The amount owed to the *IESO* by the *market participant* or owed to the *market participant* by the *IESO* for the statement type for the entire *billing period* to date for all *preliminary settlement statements* OR all *final settlement statements*.
Additional fields appearing on the last *trading day* of the real-time *billing period* (system-wide demand data related to *transmission tariff charge types* 650, 651, and 652). **The fields below are filled-in within the Statement File Header Record within the RT statement files pertaining to the last *trading day* of the month and are NULL on all other days.**				

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Field	Type	Max Field Length	Domain	Description
Peak System Demand Date	Date	11	DD-MMM-YYYY	The date on which the system-wide peak *demand* occurred for the current month
Peak System Hour	Time	2	HH	The hour on the Peak System *Demand* Date in which the peak system *demand* value was obtained.

2.1.2 Statement File Summary Records

These records provide a summary of all settlement detail and manual line item records in the file. One record is included for each combination of date and *charge type* existing in the line item records. For a final statement, adjustment summary records will not be printed if there are no adjustments to the preliminary settlement on the specific date for the specific *charge type*. The trading date of each summary record will not always match the trading date of the header record, as new settlement details for prior trading dates are included on the preliminary statement and subsequently on a final statement if they have not previously appeared on a statement.

Table 2-2: Statement File Summary Record Description

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	2	'SC'	Indicates the type of record as a summary record
Charge Type	Number	4	NNNN	Code indicating the type of settlement - no leading zeros
Charge Type Description	Varchar	100		A brief description of the *charge type*
Trading Date	Date	11	DD-MMM-YYYY	The specific trading date for which statement file detail records and statement file manual line item records are being summarized
Settlement Total	Number	20,2		Net amount of settlements for the indicated *charge type* and trading date
Adjustment Flag	Varchar	1	'N','Y'	Indicates whether the summary record is an adjustment summary record. ('**Y**': Yes or, '**N**': No)

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2.1.3 Statement File Detail Records

These records provide the details of each individual settlement line item that is created by the system for the customer. The trading date of each charge will not always match the trading date of the header record, as new settlement details for prior trading dates are included on the *preliminary settlement statement* and subsequently on a *final settlement statement* if they have not previously appeared on a statement. Some of the data field may have different meanings when used in different *charge types*. On a *preliminary settlement 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'. These records will be grouped by trade date and *charge type.*

The following table describes general descriptions of each column of *settlement statement* detail records. Since different *charge types* could use the same column for different purposes, subsequent tables will describe uses of columns by specific *charge types.*

Table 2-3: General Statement File Detail Record Description

Field ID	Short Description	Type	Max Field Length	Domain	Description
1	Record Type	Varchar	2	'DP'	Indicates the type of record as a detail record.
2	*Charge Type*	Number	4	NNNN	Code indicating the type of *settlement*.
3	Trading Date	Date	11	DD-MMM-YYYY	The specific trading date of the line item.
4	Trading Hour	Number	2	0-24	The specific hour of the line item (0 for a non-hourly *charge type*).
5	Trading Interval	Number	2	0-12	The specific trading interval of the line item (0 for a non- hourly *charge type* or hourly *charge type*).
6	*Settlement Amount*	Number	20,2		*Settlement amount* for the indicated detail record net of HST.
7	Zone ID	Varchar	16	AAAA	Zone ID for the Location ID See Column ID 8.
8	Location ID	Number	12	NNNNNN	The *delivery point* ID assigned by the *IESO* for *physical market* charges for the detail record. This may be the *energy market delivery point* ID, MSP (Market Scheduling Point / tie-point) ID or CSP (Constrained Scheduling Point / *Boundary Entity*) ID as applicable. The *delivery point* ID is a 6-character identifier. For *physical bilateral contract* (PBC) related charges, this will be the *delivery point* related to the resource specified in the PBC data submitted by the *selling market participant.*

Table 2-3: General Statement File Detail Record Description

Field ID	Short Description	Type	Max Field Length	Domain	Description
9	Settlement Type	Varchar	1	'P'	Preliminary record on a *preliminary settlement statement*
			1	'F'	Represents an adjustment to a *Settlement* Type 'P' record from *a preliminary settlement statement*. *Settlement* Type 'F' records only occur in a *final settlement statement*. Values in the *Settlement Amount* and Tax Amount fields represent incremental values from those in the *preliminary settlement statement* while a revised value for other fields represents the total value.
			1	'C'	Preliminary record (*Settlement* Type = 'P') that has been copied from the preliminary onto the *final settlement statement*. Records of this *Settlement* Type may be accompanied by a corresponding Type "F" record (see above) if an adjustment has been applied to the original Type "P" record where the Type "F" record signifies the adjustment itself.
10	Billable Quantity	Number	11,3		Indicates the quantity in to be billed. In units of MWh, MW, or KW as applicable to each *Charge Type*.
11	Price	Number	10,5		Indicates the price/rate at which the quantity will be billed.
12	Price 1	Number	10,5		Indicates a price/rate used in the calculation of the *settlement amount*.
13	Price 2	Number	10,5		Indicates a second price/rate used in the calculation of the *settlement amount*.
14	Sum of AQEW & Scheduled Exports	Number	11,3		Indicates the total quantity used in the calculation of uplifts and rebates.
15	Location ID 1	Number	12		(NOT USED)
16	Location ID 2	Number	12		(NOT USED)
17	*Intertie Metering Point* ID	Number	12	NNNNNN	Indicates the tie point (MSP ID) used where an interchange transaction is involved. For *physical bilateral contract* related charges where the resource specified for the PBC is a tie-point, this field is not filled in. In this case, the Location ID field will hold the MSP ID. See Column ID 8.

Table 2-3: General Statement File Detail Record Description

Field ID	Short Description	Type	Max Field Length	Domain	Description
18	*Intertie Metering Point* Zone	Varchar	16	AAAA	Zone ID for the *Intertie Metering Point* ID (tie-point / MSP ID) See Column ID 17.
19	Total Quantity to Allocate/Uplift	Number	20,2		Indicates the dollar amount to be allocated/uplifted to/from MPs for rebates/uplifts.
20	Constant	Number	11,3		Indicates the PBC reallocate quantity used in calculations.
21	Percentage	Number	5,4		Indicates the *physical bilateral contract* HST rate for charges 100 & 101.
22	Scheduled Import Quantity	Number	11,3		MWh imported See "IESO Charge Types and Equations" for further details.
23	Scheduled Export Quantity	Number	11,3		MWh exported See "IESO Charge Types and Equations" for further details.
24	Allocated Quantity of Energy Withdrawn	Number	11,3		MWh used as load See "IESO Charge Types and Equations" for further details.
25	Allocated Quantity of Energy Injected	Number	11,3		MWh generated See "IESO Charge Types and Equations" for further details.
26	Total Bilateral Quantity Sold	Number	11,3		Indicates the sum in MWh of all bilateral contracts sold at the *delivery point*.
27	Total Bilateral Quantity Bought	Number	11,3		Indicates the sum in MWh of all bilateral contracts bought at the *delivery point*.
28	Amount 1	Number	20,2		Indicates an amount used in the calculation in $.
29	Amount 2	Number	20,2		Indicates an amount used in the calculation in $.
30	Amount 3	Number	20,2		Indicates an amount used in the calculation in $".
31	Per Unit Charge ID	Number	12	NNNN	Unique identifier for each *IESO* manually generated per unit transaction common to all *market participants* subject to the transaction.
32	Zone ID 1	Varchar	16		Various descriptions, depending on *charge type*.

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Table 2-3: General Statement File Detail Record Description

Field ID	Short Description	Type	Max Field Length	Domain	Description
33	Zone ID 2	Varchar	16		Various descriptions, depending on *charge type*. For manual per-unit records, this may be used as a comment field. *Refer to table 2-9 for more details.
34	Tax rate	Number	5,4		HST rate applied to *settlement amount.*
35	Tax amount	Number	11,2		HST dollar amount that corresponds to the *settlement amount.*

2.1.4 Statement File Manual Line Item Records

These records identify each individual manual line item that has been entered by an *IESO* user 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.

Table 2-4: Statement File Manual Record Description

Field ID	Short Description	Type	Max Field Length	Domain	Description
1	Record Type	Varchar	2	'MP'	Indicates the type of record as a manual line item record.
2	*Charge Type* ID	Number	4	NNNN	Code indicating the type of *settlement*. - no leading zeros
3	Trading Date	Date	11	DD-MMM-YYYY	The effective date of the manual line item as entered by the *IESO*.
4	Trading Hour	Number	2	0-24	The specific hour of the manual line item (0 for a non-hourly charge).
5	Trading Interval	Number	2	0-12	The specific Trading Interval of the manual line item (0 for a non-hourly or hourly charge).
6	Adjustment Amount	Number	11,2		*Settlement amount* for the indicated manual line item.
7	Zone ID	Varchar	16	AAAA	Zone ID for the manual line item.
8	Location ID	Number	12	NNNNNN	Location ID for the manual line item.

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Table 2-4: Statement File Manual Record Description

Field ID	Short Description	Type	Max Field Length	Domain	Description
9	Settlement Type	Varchar	1	'P'	Preliminary record on a *preliminary settlement statement*. For adjustments pertaining to a trade day for which a *final settlement statement* has been issued, the adjustment will appear on a future *preliminary settlement statement* with the trade day equal to the original charge trade day. It will initially appear as a "P" record and will age in the same manner as adjustments between the *preliminary* and *final settlement statements*.
			1	'F'	Represents an adjustment to a *Settlement* Type 'P' record from a *preliminary settlement statement*. *Settlement* Type 'F' records only occur in a *final settlement statement.* Values in the Adjustment Amount and Tax Amount fields represent incremental values from those in the *preliminary settlement statement* while a revised value for other fields represents the total value.
			1	'C'	Preliminary record (*Settlement* Type = 'P') that has been copied from the preliminary onto the *final settlement statement*. Records of this *Settlement* Type may be accompanied by a corresponding Type "F" record (see above) if an adjustment has been applied to the original Type "P" record where the Type "F" record signifies the adjustment itself.
10	Billable Quantity	Number	11,3		Indicates the quantity to be billed.
11	Price	Number	10,5		Indicates the price at which the quantity will be billed.
12	Tax Rate	Number	5,4		HST rate applied to *settlement amount*.
13	Tax Amount	Number	11,2		HST dollar amount that corresponds to the *settlement amount*.
14	Adjustment Comment	Varchar	256		Describes the manual line item.

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2.2 Modes of Production

This section 2.2 contains 5 tables which describe the usage of detail records (type 'DP' – see Table 2-3) and manual records (type 'MP' – see Table 2-4) by particular *charge types* and where applicable, any anomalous usage of the fields described in tables 2-3 and 2-4 respectively. Specifically, the 5 tables provided within this section 2.2 are as follows:

1. **Table 2-5** describes the usage of each type of record by each *charge type* in the *IESO settlements process*. The specific description of Table 2-5 is provided below.
2. **Table 2-6** describes the usage of detail record fields (type 'DP' – see Table 2-3) by various *charge types* where the usage of such fields departs from the general usage as described in table 2-3.
3. **Table 2-7** describes the usage of detail record fields (type 'DP' – see Table 2-3) by *charge types* that are components of *hourly uplift* (see also, Chapter 9, section 3.9.1 of the *IESO* "Market Rules"), where the usage of such fields departs from the general usage as described in table 2-3.
4. **Table 2-8** describes the usage of manual record fields (type 'MP' – see Table 2-4) by various *charge types* where the usage of such fields departs from the general usage as described in table 2-4.
5. **Table 2-9** describes the usage of detail record fields (type 'DP' – see Table 2-3) by various *charge types* that appear as "per unit allocations" (i.e. *charge types* involving the distribution of various monetary amounts on a pro rata basis over *allocated quantities of energy injected* and/or *withdrawn*) where the usage of such fields departs from the general usage as described in table 2-3.

These tables are provided in each respective sub-section to this section 2.2.

For Table 2-6, 2-7 and 2-9, any "FIELD ID" numbers appearing in these tables (representing alternative usage of detail record fields) should correspond to the same FIELD ID in Table 2-3 (Detail Record description).

For Table 2-8, any "FIELD ID" numbers appearing in this table (representing alternative usage of manual record fields) should correspond to the same FIELD ID in Table 2-4 (Manual Record description).

2.2.1 Charge Type/Category Cross Reference:

Table 2-5 cross-references each *charge type* with its deployment in the *IESO settlements process.* In many cases, *charge types* may take on more than one form, resulting from the application of adjustments or other business rules. The purpose of Table 2-5, is to summarize the usage of each of these record formats by each applicable *charge type.*

The four usage formats described in table 2-5 are as follows:

1. **'Automatic Charge':** *Charge types* applied in this manner utilize the detail record fields (type 'DP') described in Table 2-3, and where applicable, with any anomalous field usage as described in Table 2-6.
2. **'Automatic Hourly Uplift Charge':** *Hourly Uplift charge types* applied in this manner utilize the detail record fields (type 'DP') described in Table 2-3, in conjunction with the field usage as described in Table 2-7.

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3. **'Manual Line Item':** *Charge types* applied in this manner utilize the manual record fields (type 'MP') described in Table 2-4 and where applicable, with any anomalous field usage as described in Table 2-8.
4. **'Manual Per Unit Allocation':** *Charge types* applied in this manner utilize the detail record fields (type 'DP') described in Table 2-3 and where applicable, with any anomalous field usage as described in Table 2-9.

Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
52	Transmission Rights Auction Settlement Debit	Yes	--	Yes	--
100	Net Energy Market Settlement for Generators and Dispatchable Load	Yes	--	Yes	--
101	Net Energy Market Settlement for Non-dispatchable Load	Yes	--	Yes	--
102	TR Clearing Account Credit		--	Yes	Yes
103	Transmission Charge Reduction Fund	Yes	--	Yes	--
104	Transmission Rights Settlement Credit	Yes	--	Yes	--
105	Congestion Management Settlement Credit for Energy	Yes	--	Yes	--
106	Congestion Management Settlement Credit for 10 Minute Spinning Reserve	Yes	--	Yes	--
107	Congestion Management Settlement Credit for 10 Minute Non-spinning Reserve	Yes	--	Yes	--
108	Congestion Management Settlement Credit for 30 Minute Operating Reserve	Yes	--	Yes	--
111	Northern Pulp and Paper Mill Electricity Transition Program Settlement Amount	--	--	Yes	--
112	Ontario Power Generation Rebate	Yes	--	Yes	--
113	Additional Compensation for Administrative Pricing Credit	--	--	Yes	--
114	Outage Cancellation/Deferral Settlement Credit	--	--	Yes	--
115	Unrecoverable Testing Costs Credit	--	--	Yes	--
116	Tieline Reliability Maintenance Credit	--	--	Yes	--
118	Emergency Energy Acquisition Rebate	--	--		Yes
119	Station Service Reimbursement Credit	--	--	Yes	--
120	Local Market Power Debit	--	--	Yes	--

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
121	Northern Industrial Electricity Rate Program Settlement Amount	--	--	Yes	--
122	Ramp-Down Settlement Amount	Yes	--	Yes	--
130	Intertie Offer Guarantee Settlement Credit – Energy (Calculations for charge type 130 end October 12,2011. Charge Type 130 replaced by Charge Type 1131)	Yes	--	Yes	--
133	Generation Cost Guarantee Payment	--	--	Yes	--
134	Demand Response Credit	--	--	Yes	--
135	Real-time Import Failure Charge	Yes	--	Yes	--
136	Real-time Export Failure Charge	Yes	--	Yes	--
140	Fixed Energy Rate Settlement Amount (Calculations for Charge Type 140 replaced by Charge Type 142 effective January 1,2005)	Yes	--	Yes	--
141	Fixed Wholesale Charge Rate Settlement Amount (Calculations for Charge Type 141 end March 31,2005)	Yes	--	Yes	--
142	Regulated Price Plan Settlement Amount	--	--	Yes	--
143	NUG Contract Adjustment Settlement Amount	--	--	Yes	--
144	Regulated Nuclear Generation Adjustment Amount	Yes	--	Yes	--
145	Regulated Hydroelectric Generation Adjustment Amount	Yes	--	Yes	--
146	Global Adjustment Settlement Amount (Calculations for Charge Types 146 end December 31,2010. Charge Type 146 replaced by Charge Types 147 and 148)	Yes	--	Yes	Yes
147	Class A Global Adjustment Settlement Amount	Yes	--	Yes	--
148	Class B Global Adjustment Settlement Amount	Yes	--	Yes	--
149	Regulated Price Plan Retailer Settlement Amount	--	--	Yes	--
150	Net Energy Market Settlement Uplift	--	Yes	Yes	--

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
155	Congestion Management Settlement Uplift	--	Yes	Yes	--
161	Northern Pulp and Paper Mill Electricity Transition Program Balancing Amount	--	--	Yes	--
162	Ontario Power Generation Rebate Debit (Calculations for Charge Type 162 end April 30, 2009)	--	--	Yes	--
163	Additional Compensation for Administrative Pricing Debit	--	--	Yes	Yes
164	Outage Cancellation/Deferral Debit	--	--	Yes	Yes
165	Unrecoverable Testing Costs Debit	--	--	Yes	Yes
166	Tieline Reliability Maintenance Debit	--	--	Yes	Yes
167	Emergency Energy and EDRP Debit	--	--	Yes	Yes
168	TR Market Shortfall Debit	--	--	Yes	Yes
169	Station Service Reimbursement Debit	--	--	Yes	Yes
170	Local Market Power Rebate	--	--	Yes	Yes
171	Northern Industrial Electricity Rate Program Balancing Amount	--	--	Yes	--
183	Generation Cost Guarantee Recovery Debit	--	--	Yes	Yes
184	Demand Response Debit	--	--	Yes	Yes
186	Intertie Failure Charge Rebate	--	Yes	Yes	Yes
190	Fixed Energy Rate Balancing Amount (Calculations for Charge Type 190 replaced by Charge Type 192 effective January 1,2005)	Yes	--	Yes	--
191	Fixed Wholesale Charge Rate Balancing Amount (Calculations for Charge Type 191 end March 31,2005)	Yes	--	Yes	--
192	Regulated Price Plan Balancing Amount	--	--	Yes	--
193	NUG Contract Adjustment Balancing Amount	--	--	Yes	--
194	Regulated Nuclear Generation Balancing Amount	Yes	--	Yes	--

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
195	Regulated Hydroelectric Generation Balancing Amount	Yes	--	Yes	--
196	Global Adjustment Balancing Amount	Yes	--	Yes	--
197	Global Adjustment – Special Programs Balancing Amount	Yes	--	Yes	--
198	Renewable Generation Balancing Amount (Calculations for Charge Type 198 end December 31,2010)	--	--	Yes	--
199	Regulated Price Plan Retailer Balancing Amount	--	--	Yes	--
200	10 Minute Spinning Reserve Market Settlement Credit	Yes	--	Yes	--
201	10 Minute Spinning Reserve Market Shortfall Rebate	--	--	Yes	Yes
202	10 Minute Non-spinning Reserve Market Settlement Credit	Yes	--	Yes	--
203	10 Minute Non-spinning Reserve Market Shortfall Rebate	--	--	Yes	Yes
204	30 Minute Operating Reserve Market Settlement Credit	Yes	--	Yes	--
205	30 Minute Operating Reserve Market Shortfall Rebate	--	--	Yes	Yes
250	10 Minute Spinning Market Reserve Hourly Uplift	--	Yes	Yes	--
251	10 Minute Spinning Market Reserve Shortfall Debit	--	--	Yes	--
252	10 Minute Non-spinning Market Reserve Hourly Uplift	--	Yes	Yes	--
253	10 Minute Non-spinning Market Reserve Shortfall Debit	--	--	Yes	--
254	30 Minute Operating Reserve Market Hourly Uplift	--	Yes	Yes	--
255	30 Minute Operating Reserve Market Shortfall Debit	--	--	Yes	--
400	Black Start Capability Settlement Credit	--	--	Yes	--
402	Reactive Support and Voltage Control Settlement Credit	--	--	Yes	--
404	Regulation Service Settlement Credit	--	--	Yes	--
406	Emergency Demand Response Program (EDRP) Credit	--	--	Yes	--
410	*IESO*-Controlled Grid Special Operations Credit	--	--	Yes	--

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
450	Black Start Capability Settlement Debit	--	--	Yes	Yes
451	Hourly Reactive Support and Voltage Control Settlement Debit	--	Yes	Yes	Yes
452	Monthly Reactive Support and Voltage Control Settlement Debit	--	Yes	Yes	Yes
454	Regulation Service Settlement Debit	--	--	Yes	Yes
460	*IESO*-Controlled Grid Special Operations Debit	--	--	Yes	Yes
500	Must Run Contract Settlement Credit	--	--	Yes	--
550	Must Run Contract Settlement Debit	--	--	Yes	Yes
600	Network Service Payment	Yes	--	Yes	--
601	Line Connection Service Payment	Yes	--	Yes	--
602	Transformation Connection Service Payment	Yes	--	Yes	--
603	Export Transmission Service Payment	Yes	--	Yes	--
650	Network Service Charge	Yes	--	Yes	--
651	Line Connection Service Charge	Yes	--	Yes	--
652	Transformation Connection Service Charge	Yes	--	Yes	--
653	Export Transmission Service Charge	Yes	--	Yes	--
702	Debt Retirement Credit	Yes	--	Yes	--
703	Rural Rate Assistance Settlement Credit	Yes	--	Yes	--
704	OPA Administration debit	Yes	--	Yes	--
752	Debt Retirement Charge	Yes	--	Yes	--
753	Rural Rate Assistance Settlement Debit	Yes	--	Yes	--
754	OPA Administration credit	Yes	--	Yes	--
850	Market Participant Default Settlement Debit (recovery)	--	--	Yes	--
851	Market Participant Default Interest Debit	==	==	Yes	==
900	HST Credit	--	--	--	--
950	HST Debit	--	--	--	--
1050	Self-induced Dispatchable Load CMSC Clawback	Yes	--	Yes	--

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
1051	Ramp-down CMSC Clawback Amount	Yes	--	Yes	--
1130	Day-Ahead Intertie Offer Guarantee (Calculations for Charge Type 1130 end October 12,2011. Charge Type 1130 replaced by Charge Type 1131)	Yes	--	Yes	--
1131	Intertie Offer Guarantee Settlement Credit – Energy	Yes	--	Yes	
1133	Day-Ahead Generation Cost Guarantee Payment (Calculations for Charge Type 1133 end October 12, 2011)	--	--	Yes	--
1134	Day-Ahead Linked Wheel Failure Charge	Yes		Yes	
1135	Day-Ahead Import Failure Charge	Yes	--	Yes	--
1136	Day-Ahead Export Failure Charge	Yes		Yes	
1137	Intertie Offer Guarantee Reversal (Calculations for Charge Type 1137 end October 12,2011)	Yes[1]	--	Yes[2]	--
1138	Day-Ahead Fuel Cost Compensation Credit	--	--	Yes	--
1139	Intertie Failure Charge Reversal (Calculations for Charge Type 1139 end October 12,2011)	Yes	--	Yes	--
1188	Day-Ahead Fuel Cost Compensation Debit	--	--	Yes	Yes
1300	Capacity Based Demand Response Program Availability Payment Settlement Amount	--	--	Yes	--
1301	Capacity Based Demand Response Program Availability Over-Delivery Settlement Amount	--	--	Yes	--
1302	Capacity Based Demand Response Program Availability Set-Off Settlement Amount	--	--	Yes	--

[1] When applied as an automatic charge, it is used in Context 1:IOG Reversal. When applied as a manual line item, it can refer to either IOG Reversal or DA_IOG adjustment. When applied as an automatic charge, it is used in Context 1:IOG Reversal

[2] When applied as a manual line item, it can refer to either IOG Reversal or DA_IOG adjustment

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
1303	Capacity Based Demand Response Program Utilization Payment Settlement Amount	--	--	Yes	--
1304	Capacity Based Demand Response Program Utilization Set-Off Settlement Amount	--	--	Yes	--
1305	Capacity Based Demand Response Program Planned Non-Performance Event Set-Off Amt	--	--	Yes	--
1306	Capacity Based Demand Response Program Measurement Data Set-Off Settlement Amt	--	--	Yes	--
1307	Capacity Based Demand Response Program Buy-Down Settlement Amount	--	--	Yes	--
1308	Capacity Based Demand Response Program Performance Breach Settlement Amount	--	--	Yes	--
1309	Demand Response Pilot– Availability Payment	--	--	Yes	--
1310	Demand Response Pilot – Availability Clawback	--	--	Yes	--
1311	Demand Response Pilot – Availability Charge	--	--	Yes	--
1312	Demand Response Pilot – Availability Adjustment	--	--	Yes	--
1313	Demand Response Pilot – Demand Response Bid Guarantee	--	--	Yes	--
1314	Demand Response Capacity Obligation – Availability Payment	--	--	Yes	--
1315	Demand Response Capacity Obligation – Availability Charge	Yes	--	Yes	--
1316	Demand Response Capacity Obligation – Administration Charge	--	--	Yes	--
1317	Demand Response Capacity Obligation – Dispatch Charge	--	--	Yes	--
1318	Demand Response Capacity Obligation – Capacity Charge	--	--	Yes	--
1319	Demand Response Capacity Obligation – Buy-Out Charge	--	--	Yes	--
1330	Demand Response 2 Availability Payment Settlement Amount	--	--	Yes	--

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
1331	Demand Response 2 Availability Set-Off Settlement Amount	--	--	Yes	--
1332	Demand Response 2 Utilization Payment Settlement Amount	--	--	Yes	--
1333	Demand Response 2 Utilization Set-Off Settlement Amount	--	--	Yes	--
1334	Demand Response 2 Planned Non-Performance Event Set-Off Settlement Amount	--	--	Yes	--
1335	Demand Response 2 Meter Data Set-Off Settlement Amount	--	--	Yes	--
1340	On behalf of OPA for the DR3 Program - Availability Payment Settlement Amount	--	--	Yes	--
1341	On behalf of OPA for the DR3 Program - Availability Over-Delivery Settlement Amt	--	--	Yes	--
1342	On behalf of OPA for the DR3 Program - Availability Set-Off Settlement Amount	--	--	Yes	--
1343	On behalf of OPA for the DR3 Program - Utilization Payment Settlement Amount	--	--	Yes	--
1344	On behalf of OPA for the DR3 Program - Utilization Set-Off Settlement Amount	--	--	Yes	--
1345	On behalf of OPA for the DR3 Program - Planned Non-Performance Event Set-Off Settlement Amt	--	--	Yes	--
1346	On behalf of OPA for the DR3 Program - Meter Data Set-Off Settlement Amount	--	--	Yes	--
1347	On behalf of OPA for the DR3 Program - Buy-Down Settlement Amount	--	--	Yes	--
1348	On behalf of OPA for the DR3 Program - Miscellaneous Settlement Amount	--	--	Yes	--
1350	Capacity Based Recovery Amount for Class A Loads	--	--	Yes	--
1351	Capacity BasedRecovery Amount for Class B Loads	--	--	Yes	--
1380	Demand Response 2 Availability Payment Balancing Amount	--	--	Yes	--
1381	Demand Response 2 Availability Set-Off Balancing Amount	--	--	Yes	--

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
1382	Demand Response 2 Utilization Payment Balancing Amount	--	--	Yes	--
1383	Demand Response 2 Utilization Set-Off Balancing Amount	--	--	Yes	--
1384	Demand Response 2 Planned Non-Performance Event Set-Off Balancing Amount	--	--	Yes	--
1385	Demand Response 2 Meter Data Set-Off Balancing Amount	--	--	Yes	--
1386	Demand Response 2 Miscellaneous Balancing Amount	--	--	Yes	--
1390	Demand Response 3 Availability Payment Balancing Amount	--	--	Yes	--
1391	Demand Response 3 Availability Over-Delivery Balancing Amount	--	--	Yes	--
1392	Demand Response 3 Availability Set-Off Balancing Amount	--	--	Yes	--
1393	Demand Response 3 Utilization Payment Balancing Amount	--	--	Yes	--
1394	Demand Response 3 Utilization Set-Off Balancing Amount	--	--	Yes	--
1395	Demand Response 3 Planned Non-Performance Event Set-Off Balancing Amount	--	--	Yes	--
1396	Demand Response 3 Meter Data Set-Off Balancing Amount	--	--	Yes	--
1397	Demand Response 3 Buy-Down Balancing Amount	--	--	Yes	--
1398	Demand Response 3 Miscellaneous Balancing Amount	--	--	Yes	--
1400	OPA Contract Adjustment Settlement Amount	--	--	Yes	--
1401	Incremental Loss Settlement Credit	Yes	--	Yes	--
1402	Hourly Condense System Constraints Settlement Credit	Yes	--	Yes	--
1403	Speed-no-load Settlement Credit	Yes	--	Yes	--
1404	Condense Unit Start-up and OM&A Settlement Credit	Yes	--	Yes	--
1405	Hourly Condense Energy Costs Settlement Credit	Yes	--	Yes	--
1406	Monthly Condense Energy Costs Settlement Credit	Yes	--	Yes	--

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
1407	Condense Transmission Tariff Reimbursement Settlement Credit	Yes	--	Yes	--
1408	Condense Availability Cost Settlement Credit	Yes	--	Yes	--
1409	Monthly Condense System Constraints Settlement Credit	Yes	--	Yes	--
1410	Renewable Energy Standard Offer Program Settlement Amount	--	--	Yes	--
1411	Clean Energy Standard Offer Program Settlement Amount	--	--	Yes	--
1412	Feed-in Tariff Program Settlement Amount	--	--	Yes	--
1413	Renewable Generation Connection – Monthly Compensation Settlement Credit	--	--	Yes	--
1414	Hydroelectric Contract Initiative Settlement Amount	--	--	Yes	--
1415	Conservation Assessment Recovery	--	--	Yes	--
1416	Conservation and Demand Management - Compensation Settlement Credit	--	--	Yes	--
1417	Daily Condense Energy Costs Settlement Credit	--	--	Yes	--
1418	Biomass Non-Utility Generation Contracts Settlement Amount	--	--	Yes	--
1419	Energy from Waste (EFW) Contracts Settlement Amount	--	--	Yes	--
1420	Ontario Electricity Support Program Settlement amount	--	--	Yes	--
1450	OPA Contract Adjustment Balancing Amount	--	--	Yes	--
1451	Incremental Loss Offset Settlement Amount	Yes	--	Yes	--
1460	Renewable Energy Standard Offer Program Balancing Amount	--	--	Yes	--
1461	Clean Energy Standard Offer Program Balancing Amount	--	--	Yes	--
1462	Feed-in Tariff Program Balancing Amount	--	--	Yes	--
1463	Renewable Generation Connection – Monthly Compensation Settlement Debit	--	--	Yes	--

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
1464	Hydroelectric Contract Initiative Balancing Amount	--	--	Yes	--
1465	Ontario Clean Energy Benefit (-10%) Program Balancing Amount	--	--	Yes	--
1466	Conservation and Demand Management-Compensation Balancing Amount	--	--	Yes	--
1468	Biomass Non-Utility Generation Contracts Balancing Amount	--	--	Yes	--
1469	Energy from Waste (EFW) Contracts Balancing Amount	--	--	Yes	--
1470	Ontario Electricity Support Program Balancing amount	Yes		Yes	Yes
1500	Day-Ahead Production Cost Guarantee Payment - Component 1 and Component 1 Clawback	Yes	--	Yes	--
1501	Day-Ahead Production Cost Guarantee Payment - Component 2	Yes	--	Yes	--
1502	Day-Ahead Production Cost Guarantee Payment - Component 3 and Component 3 Clawback	Yes	--	Yes	--
1503	Day-Ahead Production Cost Guarantee Payment - Component 4	Yes	--	Yes	--
1504	Day-Ahead Production Cost Guarantee Payment - Component 5	Yes	--	Yes	--
1505	Day-Ahead Production Cost Guarantee Reversal	Yes	--	Yes	--
1510	Day-Ahead Generator Withdrawal Charge	Yes	--	Yes	--
1550	Day-Ahead Production Cost Guarantee Recovery Debit	--	Yes	Yes	Yes
1560	Day-Ahead Generator Withdrawal Rebate	--	Yes	Yes	Yes
1600	Forecasting Service Settlement Amount			Yes	
1650	Forecasting Service Balancing Amount		--	Yes	Yes--
9920	Adjustment Account Credit	--	--	--	Yes
9980	Smart Metering Charge	--	--	Yes	--

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Table 2-5: Charge Type / Category Cross Reference

Charge Type ID	Charge Type Name	Automatic Charge	Automatic Uplift	Manual Line Item	Manual Per Unit Allocation
9990	IESO Energy Market Administration Charge	Yes	--	Yes	Yes
9992	Ontario Clean Energy Benefit (-10%) Program Settlement Amount	--	--	Yes	--
9996	Recovery of Costs	--	--	Yes	--

2.2.2 Automatic Generation of Charges and Anomalous Field Usage by Specific Charge Types

These are 'automatic charges' (see also, Table 2-5) generated from *delivery point* measurements, schedules, prices and *bid* / *offer* curves. They are generated automatically nightly. As described in section 2.2, the usage of detail record (type 'DP') fields may depart from the general description provided in table 2-3. This table (2-6) describes the particular use of Detail Record fields (type 'DP') by the particular *charge types* listed in the "Charge Type ID" field below. The field usage described in this table departs from what is normally used by Detail Records as per the general description provided in Table 2-3.

Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
52, 104	32	Injection TR Zone	Indicates the Injection *TR Zone.*
	33	Withdrawal TR Zone	Indicates the Withdrawal *TR Zone.*
100	7	Ontario Zone or CSP Zone	If this charge pertains to an injection or withdrawal within Ontario, this will indicate the Ontario Zone ('ONZN'). If this charge pertains to an import or export from Ontario, this will contain the CSP Zone. This zone is used for taxing purposes and will be either 'NYSI' (to indicate the US) or 'MBSI' (to indicate Canada). If this charge pertains to a *Physical Bilateral Contract* at a *delivery point* within Ontario, this will indicate the Ontario Zone ('ONZN'). If this charge pertains to a *Physical Bilateral Contract* at an *Intertie Metering Point*, this will contain the zone in which the *Intertie* is located.

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	8	Ontario Delivery Point or CSP	If this charge pertains to an injection or withdrawal within Ontario, this will indicate the *Delivery Point* pertaining to this charge. If this charge pertains to an import or export from Ontario, this will contain the CSP ID used to schedule the import or export. If this charge pertains to *a Physical Bilateral Contract* at a *delivery point* within Ontario, this will indicate the *Delivery Point* specified in the contract. If this charge pertains to a *Physical Bilateral Contrac*t at an *Intertie*, this will contain the *Intertie* Point ID specified in the contract.
	11	Price	Indicates that the applicable 5-minute *energy market* price ($EMP_h^{m,t}$) at *delivery point* 'm' or 5-minute *energy market price* ($EMP_h^{i,t}$) at *intertie metering point* 'i' will be used for the measured energy quantity or *physical bilateral contract quantity of energy BOUGHT* or *SOLD* ($BCQ_{s,k,h}^{m,t}$or $BCQ_{k,b,h}^{m,t}$) in question. See also: "IESO Charge Types and Equations" section 2.5 for further details.
	17	Tie Point ID	If this charge pertains to an injection or withdrawal within Ontario, this field will be NULL. If this charge pertains to an import or export from Ontario, this will contain the *Intertie* ID used to schedule the import or export.
	18	Tie Point Zone	If this charge pertains to an injection or withdrawal within Ontario, this field will be NULL. If this charge pertains to an import or export from Ontario, this will contain the zone in which the *Intertie* is located.

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
101	12	Price 1	Indicates that *the Hourly Ontario Energy Price (HOEP)* will be used for the measured energy quantity or *physical bilateral contract quantity of energy BOUGHT* ($BCQ_{s,k,h}^{m,t}$) in question. See also: "IESO Charge Types and Equations" section 2.5 for further details.
	26	total bilateral contract quantity sold	NOT USED
	28	amount 1	SUM OF: all *physical bilateral contract quantities of energy **SOLD*** ($BCQ_{k,b,h}^{m,t}$) TIMES EACH applicable 5-minute *energy market price* ($EMP_h^{m,t}$) at *delivery point* 'm' OR 5-minute *energy market price* ($EMP_h^{i,t}$) at *intertie metering point* 'i' (as the case may be) FOR: each *metering interval* 't' in *settlement hour* 'h'. See also: "IESO Charge Types and Equations " section 2.5 for further details.
105, 106, 107, 108	32	Reason Code	If these *charge types* are **at the *Interties*,** this field indicates the *reason code*.. In this case, this field can have the values: • '**TLRI**' - denotes Internal Transmission Loading Relief (TLRI) events where CMSC payments should be provided as per normal calculations. • '**ORA**'- denotes Operating Reserve Activation (ORA) events where CMSC payments should be provided. • '**AUTO**' denotes a constraining event triggered without intra-hour manual intervention where CMSC payments should be provided – OR - the absence of any constraining event at the *interties* at all. The above codes apply to occurrences *charge types* 105, 106, 107, and 108 at the *interties* only. During instances where *charge types* 105, 106, 107, and 108 are not applicable to the *interties*, this field will have a null value.

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
105	13	Price 2	This field contains the lower limit applied to the offer matrix "BE" for generation or import energy offers when this lower limit is applied as per *IESO* Market Rule 9.3.5.7 or NULL if this market rule is not applied
122	11	Start Ramp-down Hour	This field contains the start hour of the ramp-down period. (1 to 24)
	12	Start Ramp-down Interval	This field contains the start interval of the ramp-down period. (1 to 24)
	20	Start Ramp-down Date	This field contains the start date of the ramp-down period. (YYYYMMDD)
	28	OP (MQSI)	This field contains the operating profit for the market quantity scheduled for injection.
	29	OP (DQSI)	This field contains the operating profit for the dispatch quantity scheduled for injection.
	30	OP (AQEI)	This field contains the operating profit for the AQEI.
130	28	Amount 1	This field contains the negative value of the output of Operating Profit function (OP) for the *settlement hour* to which the charge type applies. See also: "IESO Charge Types and Equations" section 2.2 for further details.
135	22	Scheduled Import Quantity	This field contains the Real-time Import Scheduling Deviation (RT_ISD) quantity. Expressed as the average value for the hour: $= \sum^{T}[MAX (PD_DQSI_{k,h}^{i,t} - DQSI_{k,h}^{i,t}, 0)]/12$ See also: "*IESO Charge Types and Equations*" section 2.2 for further details.
	30	Amount 3	Price Bias Adjustment Factor for Import transactions ($/MWh to the nearest cent). See also: "*IESO Charge Types and Equations*" section 2.2 for further details.

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
136	23	Scheduled Export Quantity	This field contains the Real-time Export Scheduling Deviation (RT_ESD) quantity. Expressed as the average value for the hour: $= \sum^{T}[MAX (PD_DQSW_{k,h}^{i,t} - DQSW_{k,h}^{i,t}, 0)]/12$ See also: "IESO Charge Types and Equations" section 2.2 for further details.
	30	Amount 3	Price Bias Adjustment Factor for Export transactions ($/MWh to the nearest cent). See also: "IESO Charge Types and Equations" section 2.2 for further details.
140	10	Billable Quantity	This will include the total net quantity used as the basis of the Fixed *Energy* Refund for the applicable *settlement hour*. This will therefore be an aggregation of the quantities used during all *metering intervals* during the *settlement hour* using the formulas described in "IESO Charge Types and Equations"
	11	Price	The fixed *energy* rate (FP_h^m) used.
141	11	Price	Rate for a designated group of *charge types* (FPC_h^m). See "IESO Charge Types and Equations" for further details.
144, 194	10	Billable Quantity	This field contains the AQEI for the interval/hour related to the record.
	11	Price	This field contains the Energy Market Price (EMP) for the *metering interval* for a *delivery point* that is dispatchable ($/MWh). (If applicable.)
	12	Price 1	This field contains the *Hourly Ontario Energy Price* (HOEP) for the hour for a *delivery point* that is non-dispatchable. (If applicable.)
	13	Price 2	This field will show the Generator Regulated Price (GRP) which Nuclear station will be paid for generation into the *IESO-administered markets* ($/MWh)
	14	Factor	This field will show the percent of Nuclear generation included under this charge. The regulation specifies this value as 100% or 1.0 for the current implementation.

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
145, 195	10	Billable Quantity	This field contains the AQEI for the *delivery point* for the hour/interval related to the record.
	11	Price	This field contains the Energy Market Price (EMP) for the *metering interval* being adjusted ($/MWh)
	13	Price 2	This field will show the Generator Regulated Price (GRP) which Hydroelectric station will be paid for generation into the *IESO-administered markets* ($/MWh).
	14	Hydroelectric station AQEI for hour	This field contains the total Hydroelectric generation (AQEI) for the hour.
	20	Threshold Generation Quantity	The Threshold Output Amount (TGQ) of energy (MWh), for the hydroelectric regulated station.
146	14	Market total quantity for Allocation of Uplift	This field contains the total market quantity for the allocation of the uplift. The quantity is the total AQEW plus the total Embedded Generator Energy Injection (EGEI) less the total Excluded Energy Quantity (EEQ) in units of MWh
	20	Excluded Energy Quantity	This field contains the Excluded Energy Quantity (EEQ) for the market participant (energy in units of MWh)
	25	Embedded Generator Energy Injection	This field contains the total Embedded Generator Energy Injection (EGEI) quantity for the market participant (energy in units of MWh)
147	33	Peak Demand Factor	This will contain the Peak Distribution Factor for the business associate.
148	14	Market total for Class B load	This field contains the Total market Class B load (energy in units of MWh)
	24	Class B load	This field contains the Class B Load Qty (Monthly Load less Class A Load)) for the market participant (energy in units of MWh)
	20	Excluded Energy Quantity	This field contains the Excluded Energy Quantity (EEQ) for the market participant (energy in units of MWh)

Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	25	Embedded Generator Energy Injection	This field contains the total Embedded Generator Energy Injection (EGEI) quantity for the market participant (energy in units of MWh)
	28	Ancillary Service LoadAmt1	This field contains the energy withdrawn by a market participant generator in the course of providing Ancillary Services(energy in units of MWh)
	29	Beck PGS Load	This field contains the energy withdrawn at Beck Pump Generating Station (energy in units of MWh)
196	19	Market total quantity for allocation of uplift	This field contains the total settlement amount of Global Adjustment for the allocation of the uplift.
197	19	Market total quantity for allocation of uplift	This field contains the portion of Global Adjustment that relates to Special Programs not administered by the *OPA*.
600, 601, 602	10	Sum of Peak Demand Quantities	Sum of all applicable peak *demand* quantities across all transmission *delivery points* across all *transmitters* (KW). N.B.: units of measurement substitution.
	12	Proportionality Factor	The proportionality factor applicable to the *transmitter* who receives the charge.
	28	Total Tariff Charges	Sum of all applicable corresponding 65X charges across all transmission *delivery points* across all *transmitters* ($).
603	10	Sum of SQEW	Sum of SQEW quantities (MWh) for a **single** ZONE ID across all *market participants* conducting export transactions at that location during the *billing period*. As a result of this arrangement, a separate detail record for *charge type* 603 will appear for each ZONE ID where an export occurred during the *billing period.* These scheduled quantities are also for a **single** *Intertie Metering Point* ID. A separate detail record for charge 603 will appear for each *Intertie Metering Point* ID through which an export occurred during the *billing period.*
650, 651, 652	8	Transmission Delivery Point	The *delivery point* ID assigned by the

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
		ID	*IESO* for transmission network charges (650) or transmission *connection charges* (651 and 652). The establishment of such *delivery points* is subject to the *meter point* documentation provided by the *transmission customer's meter service provider* subject to Chapter 10 of the *IESO* "Market Rules". The *delivery point* ID is a 6-character identifier.
	10	Peak Demand Quantity	Relevant peak demand quantities for a **single** transmission *delivery point* (KW) N.B.: units of measurement substitution.
	11	Transmission Tariff Rate	*Transmission Tariff* Rate ($/KW). N.B.: units of measurement substitution. Subject to the applicable *OEB* Rate Order.
	28	Demand Date	Indicates the *trading day* within the month from which the demand quantity for the relevant *transmission tariff* was used. Subject to the applicable *OEB* Rate Order. N.B. Column is date format YYYYMMDD converted to NUMBER.
	29	Demand Hour	Indicates the hour within the Demand Date identified in column ID 28 from which the demand quantity for the relevant *transmission tariff* was used. Subject to the applicable *OEB* Rate Order.
	32	Transmitter Market Participant Short Name	The Short Name of the *Market Participant* who serves as the *transmitter* for the transmission *delivery point* specified in Column 8.

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
653	10	Sum of SQEW	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 *billing period*. 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 *billing period.* These scheduled quantities are also for a **single** *Intertie Metering Point* ID. A separate detail record for charge 603 will appear for each *Intertie Metering Point* ID through which an export occurred during the *billing period.*
	32	Transmitter Market Participant Short Name	The Short Name of the *Market Participant* who serves as the *transmitter* for the MSP specified in Column 17.
	11	Export Tariff Price	The tariff price used for the applicable corresponding 653 charges (could be *transmitter* specific or generic).
1050			
	28	Amount1	This field contains the negative value of the output of Operating Profit function (OP) for the *settlement interval* at minimum consumption to which the charge applies. (See also "*Charge Types and Equations*" section 2.2 for further details). Note: This value applies to business rule 2 "**Non-Dispatchable Portion of Load**" only. The field will have a null value for all other business rules.
	30	Amount3	This contains the business rule number which resulted in the Self-induced Dispatchable Load CMSC Clawback amount. (See also "*Charge Types and Equations*" section 2.2 for further details)
1051	11	Start Ramp-down Hour	This field contains the start hour of the ramp-down period. (1 to 24)
	12	Start Ramp-down Interval	This field contains the start interval of the ramp-down period. (1 to 24)
	20	Start Ramp-down Date	This field contains the start date of the ramp-down period. (YYYYMMDD)

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
1130	28	Amount 1	This field contains the negative value of the output of Operating Profit function ('OP') for the *settlement hour* to which the charge type applies. See also: "*IESO Charge Types and Equations*" section 2.2 for further details. Note: this value in field 30 is subtracted from this amount to derive the *settlement amount* for this charge type.
	30	Amount 3	Contains the hourly amount for charge type 105 (CMSC for *energy*: $TD_{k,h,105}^{i}$) that is used in the calculation of this *settlement amount*.
1131	17	intertie metering point ID	Tie Point ID
	18	intertie metering point zone	Tie Point Zone
1134	12	Price 1	Price Bias Adjustment Factor for Import transactions ($/MWh to the nearest cent).
	13	Price 2	Price Bias Adjustment Factor for Export transactions ($/MWh to the nearest cent).
	15	Location ID 1	Sink Point (Intertie pt) of the Day-ahead linked wheel
	16	Location ID 2	Source Point (Location) of the Day-ahead linked wheel.
	17	Intertie Metering Point ID	This field contains the Tie Point ID
	18	Intertie Metering Point Zone	This filed contains the Tie Point Zone
	19	Total quantity to uplift/allocate	This field contains the pre-dispatch price spread.
	20	Constant	This field contains the maximum of: • The difference between the day-ahead import quantity and the hour ahead pre-dispatch import quantity and • The difference between the day-ahead export quantity and the hour ahead pre-dispatch export quantity.

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	28	Amount 1	This field contains the day-ahead price spread.
	29	Amount 2	Real-time import failure charge for the import portion of the day-ahead linked wheel for the quantity failure from day-ahead to pre-dispatch.
	30	Amount 3	Real-time export failure charge for the export portion of the day-ahead linked wheel for the quantity failure from day-ahead to pre-dispatch.
1135	17	Intertie Metering Point ID	This field contains the Tie Point ID
	18	Intertie Metering Point Zone	This field contains the Tie Point Zone
	19	Total Quantity to Allocate/Uplift/ OP	This field contains the day-ahead constrained operating profit scheduled for injection for the settlement hour.
	22	Scheduled Import Quantity	This field contains the Day-Ahead Import Scheduling Deviation (DA_ISD) quantity. $= \sum^{T}[MAX (DA_DQSI_{k,h}^{i,t} – PD_DQSI_{k,h}^{i,t}, 0)]$
	28	Amount 1	This field contains the Pre-dispatch constrained operating profit scheduled for injection for the settlement hour.
	29	Amount 2	This field contains the as-offered hour ahead pre-dispatch incremental energy cost (XPD_BE).
	30	Amount 3	This field contains the as-offered day-ahead incremental energy cost (XDA_BE).
1136	17	Intertie Metering Point ID	This field contains the Tie Point ID
	18	Intertie Metering Point Zone	This filed contains the Tie Point Zone
	19	Total Quantity to Allocate/Uplift/ OP	This field contains the day-ahead constrained operating profit scheduled for withdrawal for the settlement hour.

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	23	Scheduled Export Quantity	This field contains the Day-Ahead Export Scheduling Deviation (DA_ESD) quantity. $= \sum^{T}[MAX (DA_DQSW_{k,h}^{i,t} – PD_DQSW_{k,h}^{i,t}, 0)]$
	28	Amount 1	This field contains the Pre-dispatch constrained operating profit scheduled for withdrawal for the settlement hour.
	29	Amount 2	This field contains the as-offered hour ahead pre-dispatch incremental energy cost (XPD_BL).
	30	Amount 3	This field contains the as-offered day-ahead incremental energy cost (XDA_BL).
1137[3]	6	settlement amount	This field contains the amount of reversal in dollars rounded to the nearest cent. This amount will be the LOWER of: • the Real-time Intertie Offer Guarantee (*charge type* 130) • the Day-Ahead Intertie Offer Guarantee (*charge type* 1130)
	28	Amount 1	Contains: • '130' if this *charge type* reverses a real-time IOG *settlement amount* (*charge type* 130) • '1130' if this *charge type* reverses a day-ahead IOG *settlement amount* (*charge type* 1130)
1139	6	settlement amount	This field contains the amount of reversal in dollars rounded to the nearest cent. This amount will be the LOWER of: • the Real-time Import Failure Charge (*charge type* 135) • the Day-Ahead Import Failure Charge (*charge type* 1135)

[3] When applied as an automatic charge, it is used in Context 1:IOG Reversal. When applied as a manual line item, it can refer to either IOG Reversal or DA_IOG adjustment.

Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	28	Amount 1	Contains: • '135' if this *charge type* reverses a Real-time Import Failure Charge *settlement amount* (*charge type* 135) • '1135' if this *charge type* reverses Day-Ahead Import Failure Charge *settlement amount* (*charge type* 1135)
1315	3	Trading Date	Indicates the trade date used for settlement - always the last day of following month (ex. The month of May 2016 is settled as June 30, 2016)
	15	Location 1 ID	Indicates Obligation ID associated with the Availability charge calculation
	32	Zone ID 1	Indicates the trade date for which availability requirement for the day was not met. Format: character YYYYMMDD
1401	12	Price 1	Indicates that the Hourly Ontario Energy Price (HOEP).
	28	Amount 1	This field contains the Mega-Watts (MW) used in "Incremental Loss Cost (ILC)" Calculations.
	29	Amount 2	This field contains the Mega-Vars (MVAR) used in "Incremental Loss Cost (ILC)" Calculations.
	30	Amount 3	This field indicates 1 for HV(High Voltage) and 2 for LV(Low Voltage)
1402	12	Price 1	Indicates that the Hourly Ontario Energy Price (HOEP).
	13	Price 2	This field contains Hourly Uplift for the ASP.
	20	constant	This field indicate 230 Units Attracting Uplifts as used in "Reactive Support of Voltage Control Contract".
	28	Amount 1	This field contains the Net Condense requirement 115 as used in "Reactive Support and Voltage Control Service Contract".
	29	Amount 2	This field contains the Net Condense requirement 230 as used in "Reactive Support and Voltage Control Service Contract".
	30	Amount 3	This field contains Number of Additional 230 kV Units as used in "Reactive Support and Voltage Control Service Contract".

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Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
1405	12	Price 1	Indicates that the Hourly Ontario Energy Price (HOEP).
	13	Price 2	This field contains Hourly Uplift Rate for an ASP.
1406	12	Price 1	This field contains Non-hourly Uplift Rate for an ASP.
1407	11	Price	Transmission Tariff Rate ($/KW).
	28	Amount 1	This field contains the Revised Peak Date for transmission tariff reimbursement payments for the Delivery Point.
	29	Amount 2	This field contains the Revised Peak Hour for transmission tariff reimbursement payments for the Delivery Point.
	30	Amount 3	This field contains the Revised Peak Demand for transmission tariff reimbursement payments for the Delivery Point.
1409	12	Price 1	This field contains Non-hourly Uplift Rate for each ASP.
	28	Amount 1	This field indicate 115 kV Units as used in “Reactive Support and Voltage Control Service Contract”.
	29	Amount 2	This field indicate 230 kV units attracting uplifts as used in “Reactive Support and Voltage Control Service Contract”.
1500	20	Constant	This contains the MLP used in the calculation of Component 1 clawback.
	28	Amount 1	This contains the calculated Component 1 amount.
	29	Amount 2	This contains the calculated Component 1 Clawback amount.
	30	Amount 3	This contains the remaining MGBRT hours used in the calculation of Component 1 Clawback.
1501	28	Amount 1	This contains the calculated value for XBE.
	29	Amount 2	This contains the calculated value for XDA_BE.
	30	Amount 3	This contains a flag to indicate whether or not the submitted real time price curve was altered. A value of ‘1’ indicates the real time price curve was altered and a value “0” indicates that the real time price curve was not altered.
1502	20	Constant	This contains the MLP used in the calculation of Component 1 clawback.
	28	Amount 1	This contains the calculated Component 3 amount.

Table 2-6: Primary Charges – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	29	Amount 2	This contains the calculated Component 3 clawback amount.
	30	Amount 3	This contains the remaining MGBRT used in the calculation of Component 3 Clawback.
1503	10	Quantity of 30R operating reserve	This field contains the quantity of energy in the 30-minutes operating reserve market that is used in the calculation of Component 4.
	14	Quantity of 10NS operating reserve	This field contains the quantity of energy in the 10-minutes non-spinning operating reserve market that is used in the calculation of Component 4.
	20	Quantity of 10S operating reserve	This field contains the quantity of energy in the 10-minutes spinning operating reserve market that is used in the calculation of Component 4.
	28	Amount 1	This contains the operation profit of the 30-minutes operating reserve.
	29	Amount 2	This contains the operation profit of the 10-minutes non-spinning operating reserve.
	30	Amount 3	This contains the operation profit of the 10-minutes spinning operating reserve.
1504	4	Trade hour	This contains the starting hour of the EDAC start event
	20	Constant	This contains the number of interval between 7 and 18 to achieve MLP.
	28	Amount 1	This contains the start-up cost for the EDAC start event.
	30	Amount 3	This contains the last hour in the EDAC start event
1505	4	Trade hour	This contains the starting hour of the EDAC start event
	30	Amount 3	This contains the last hour in the EDAC start event
1510	4	Trade Hour	This contains the start hour of each start event.
	28	Amount 1	This will contain a flag which indicates if the market participant provided notice to IESO of their intention to withdraw at least 4 hour prior to the dispatch hour.

2.2.3 Uplift Charge Types – Anomalous Field Usage

These are ‘Automatic *Uplift* Charge’ *charge types* as described in cross-reference Table 2-5.

As with the *charge types* listed in table 2-6, *uplift charge types* also utilize detail record (type ‘DP’) formats in a manner that departs from the general description provided in table 2-3. The purpose of

Table 2-7, is to illustrate how various *uplift charge types* use specific fields within the detail record format.

For further information regarding *uplift charge types*, see also, "IESO Charge Types and Equations". For further information regarding the composition and 'disaggregation' (sic) of *uplift*, please also see section 3.9 of chapter 9 of *the IESO* "Market Rules."

Table 2-7: Uplift Charge Types – Specific Charge Columns

Uplift Charge Type ID	Field ID	Short Description	Modified Description
150, 155, 250, 252, 254, 186	7	Zone ID	This column will only be filled in if the charge is due to *energy* transfer. If the charge is due to uplift reallocation, this field will not be filled in.
150, 155, 250, 252, 254, 186	20	Reallocated Quantity	This column will only be filled in if the charge is due to uplift reallocation. If the charge is due to *energy* transfer, this field will not be filled in.
150	19	Total $ to be Uplifted	Total *Settlement Amount* (*charge types* 100, 101, 103, 104, 1131) to be recovered from *market participants* for that particular hour.
155	19	Total $ to be Uplifted	Total *Settlement Amount* (*charge types* 105, 106, 107, 108) paid or collected for that particular hour across all *market participants.*
186	19	Total $ to be Uplifted	Total Settlement Amount (Charge types 135, 136, 1134, 1135, and 1136) paid for that particular hour across all market participants.
250	19	Total $ to be Uplifted	Total Charge 200 paid for that particular hour across all *market participants*.
252	19	Total $ to be Uplifted	Total Charge 202 paid for that particular hour across all *market participants*.
254	19	Total $ to be Uplifted	Total Charge 204 paid for that particular hour across all *market participants*.
451	19	Total quantity to uplift/allocate	Total Settlement Amount (charge types 1401, 1402, 1404, 1405, 1451) to be recovered from market participants for that particular hour.
452	19	Total quantity to uplift/allocate	Total Settlement Amount (charge types 1403, 1406, 1407, 1408, 1409) to be recovered from market participants for that particular hour.
1550	14	Sum of AQEW and scheduled export quantity	Sum of AQEW,SQEW for all MPs
	19	Total Quantity to uplift/allocate	Total $ to be uplifted (charges 1500, 1501, 1502, 1503, 1504, 1505)
	23	Allocated quantity of energy injected	Sum of SQEW for the MP

Table 2-7: Uplift Charge Types – Specific Charge Columns

Uplift Charge Type ID	Field ID	Short Description	Modified Description
	24	Total bilateral quantity sold	Sum of AQEW for the MP
1560	14	Sum of AQEW and scheduled export quantity	Sum of AQEW,SQEW for all MPs
	19	Total Quantity to uplift/allocate	Total $ to be uplifted (Charge 1510)
	23	Allocated quantity of energy injected	Sum of SQEW for the MP
	24	Total bilateral quantity sold	Sum of AQEW for the MP
All hourly uplift types	33	ZONE ID 2	Field 33 is only used to apply adjustments to hourly uplift charge types and is otherwise Null. When this field is not Null it will contain either "N_MMDDHH_ mmddhh" or "A_MMDDHH_ mmddhh". The per unit allocation period is from Start Time = MMDDHH to End Time = mmddhh (MM and mm are the start and end months, DD and dd are the start and end days, HH and hh are the start and end hours.) The "N" flag - will be used for normal, month-end charges. The "A" flag will be used for all post final adjustments (due to NOD, Dispute resolutions, etc.) to any uplift charges (any type: hourly or monthly), and for adjustments required by Administrative Price Event corrections, Negative Offer Price CMSC revisions, IOG Offset, and Local Market Power.

2.2.4 Manual Line Item Charge Types

These are 'Manual Line Item' *charge types* as described in cross-reference Table 2-5.

As described in Section 2.2, the usage of manual record (type 'MP') fields may depart from the general description provided in Table 2-4. This Table (2-8) describes the particular use of Manual Record fields (type 'MP') by the particular *charge types* listed in the "Charge Type ID" field below. The field usage described in this table departs from what is normally used by Manual Records as per the general description provided in Table 2-4.

Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description

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Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
111, 161, 121, 171	4	Trading Hour	Primarily, this charge type is applied on a quarterly basis and this field will be '0'.
	5	Trading Interval	Always '0'. This charge type will be applied primarily on a quarterly basis as applicable.
	14	Adjustment Comment	Comments may be used for residual claims for settlement as applicable.
119	4	Trading hour	Primarily, this charge is applied on a monthly basis and this field will be '0'.
	5	Trading Interval	Always '0'. This charge type will be applied on a monthly basis as applicable
	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.
	8	Location ID	The facility may have multiple delivery points however the adjustment will display only one of the list of eligible station load delivery points for the facility.
	10	Billable Quantity	This is the qualified monthly load for the facility
	14	Adjustment Comment	Schema – General: [Settlement Type] [GSSR for] [Settlement month and year] [-] [Facility #][Facility number] Schema – Format: ['Prelim' or 'Final']['GSSR for '] [Month YYYY][' -']['Facility #'][##] Schema – Example:Prelim GSSR for September 2011 - Facility #2
133	4	Trading Hour	The hour in which the underlying *generation facility* achieves synchronization with the *IESO-controlled grid*
	5	Trading Interval	The *metering interval* in which the underlying *generation facility* achieves synchronization with the *IESO-controlled grid*
	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.

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Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	14	Adjustment Comment	**Schema – General:** [Trading Day], [combined guaranteed costs] , [applicable revenue used in the calculation] , [generation cost guarantee payment] **Schema – Format:** [dd-mmm-yyyy] [‘,’] [‘CGC=’] [‘,’] [combined guaranteed costs to the nearest cent] [‘,’] [‘GCG Earned Revenue=’] [‘,’] [applicable revenue used in the calculation to the nearest cent] [‘,’] [‘Generation Cost Guarantee Payment’] **Example:** 14-Mar-2006,CGC=,27120,GCG Earned Revenue=,20100.13 ,Generation Cost Guarantee Payment
140	4	Trading Hour	Primarily, this *charge type* is applied on a monthly basis and this field will be ‘0’. This *charge type* can be applied on an hourly basis (i.e. as an adjustment to an automatic, type ‘DP’ record), in which case the hour will be included.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a hourly or monthly basis as applicable
	14	Adjustment Comment	Comments may be used for claims for retail settlement as may be determined by *applicable law* and regulations.
141	4	Trading Hour	Always '0'. This *charge type* will be applied on a MONTHLY basis
	5	Trading Interval	Always '0'. This *charge type* will be applied on a MONTHLY basis
	14	Adjustment Comment	Comments may be used for claims for retail settlement as may be determined by *applicable law* and regulations.
142, 143, 149, 192, 193, 199	4	Trading Hour	Primarily, this *charge type* is applied on a monthly basis and this field will be ‘0’.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a monthly basis as applicable
	14	Adjustment Comment	Comments may be used for residual claims for settlement as may be determined by *applicable law* and subsequent regulation.

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Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
144, 194	11	Price	Indicates either HOEP or EMP related to the adjustment
	14	Adjustment Comment	Comments may be used for residual claims for settlement as may be determined by *applicable law* and subsequent regulation.
146	4	Trading Hour	Primarily, this *charge type* is applied on a monthly basis and this field will be '0'.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a monthly basis as applicable
	10	Billable Quantity	Indicates AQEW plus Embedded Generation Energy Injection (EGEI) value used in the calculation
	14	Adjustment Comment	Comments may be used for residual claims for settlement as may be determined by *applicable law* and subsequent regulation.
147, 1350	4	Trading Hour	Primarily, this *charge type* is applied on a monthly basis and this field will be '0'.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a monthly basis as applicable
	14	Adjustment Comment	Comments may be used for residual claims for settlement as may be determined by *applicable law* and subsequent regulation.
148, 1351	4	Trading Hour	Primarily, this *charge type* is applied on a monthly basis and this field will be '0'.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a monthly basis as applicable
	10	Billable Quantity	Indicates AQEW associated with Class B consumption used in the calculation
	14	Adjustment Comment	Comments may be used for residual claims for settlement as maybe determined by *applicable law* and subsequent regulation.
162	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.
190	4	Trading Hour	Primarily, this *charge type* is applied on a monthly basis and this field will be '0'. This *charge type* can be applied on an hourly basis (i.e. as an adjustment to an automatic, type 'DP' record), in which case the hour will be included.

Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	5	Trading Interval	Always '0'. This *charge type* will be applied on a hourly or monthly basis as applicable
	14	Adjustment Comment	Comments may be used for claims for retail settlement as may be determined by *applicable law* and regulations.
191	4	Trading Hour	Always '0'. This *charge type* will be applied on a MONTHLY basis
	5	Trading Interval	Always '0'. This *charge type* will be applied on a MONTHLY basis
	14	Adjustment Comment	Comments may be used for claims for retail settlement as may be determined by *applicable law* and regulations.
196	4	Trading Hour	Primarily, this *charge type* is applied on a monthly basis and this field will be '0'.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a monthly basis as applicable
	14	Adjustment Comment	Comments may be used for residual claims for settlement as may Be determined by *applicable law* and subsequent regulation.
197	4	Trading Hour	Primarily, this *charge type* is applied on a monthly basis and this field will be '0'.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a monthly basis as applicable
	14	Adjustment Comment	Comments may be used for residual claims for settlement as may Be determined by *applicable law* and subsequent regulation.
650, 651, 652	8	Transmission *Delivery Point* ID	The *delivery point* ID assigned by the *IESO* for transmission network charges (650) or transmission connection charges (651 and 652). The establishment of such *delivery points* is subject to the meter point documentation provided by the *transmission customer's meter service provider* subject to Chapter 10 of the *IESO* "Market Rules." The *delivery point* ID is a 6-character identifier.
653	7	Zone ID	Zone ID for taxation purposes. Will be either "MBSI" or "NYSI"

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Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	8	*Intertie Metering Point* ID	Indicates the tie point (MSP ID) used to determine the *transmitter market participant.*
850, 851	4	Trading Hour	Primarily, this charge type is applied as required and this field will be '0'.
	5	Trading Interval	Always '0'. This charge type will be applied as required.
	14	Adjustment Comment	Comments may be used for residual claims for settlement as applicable.
1133	4	Trading Hour	The hour in which the underlying *generation facility* achieves synchronization with the *IESO-controlled grid*
	5	Trading Interval	The *metering interval* in which the underlying *generation facility* achieves synchronization with the *IESO-controlled grid*
	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.
	14	Adjustment Comment	**Schema – General:** [Trading Day], [day-ahead combined guaranteed costs] , [applicable revenue used in the calculation] , [day-ahead generation cost guarantee payment] **Schema – Format:** [dd-mmm-yyyy] [','] ['CGC='] [','] [day-ahead combined guaranteed costs to the nearest cent] [','] ['GCG Earned Revenue='] [','] [applicable revenue used in the calculation to the nearest cent] [','] ['Day-Ahead Generation Cost Guarantee Payment'] **Example:** 14-Mar-2006,CGC=,27120,GCG Earned Revenue=,20100.13,Day-Ahead Generation Cost Guarantee Payment

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Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
1137	4	Trading Hour	The hour in which the underlying non-zero transaction was scheduled in the day-ahead *pre-dispatch-of-record*.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a HOURLY basis.
	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.
	14	Adjustment Comment	The day in which the underlying non-zero transaction was scheduled in the day-ahead *pre-dispatch-of-record* and the IOG floor value. **Context 1: IOG_REV** **Schema – General:** [Trading Day] , [intertie offer guarantee reversal] **Schema – Format:** [dd-mmm-yyyy] [','] ['Intertie Offer Guarantee Reversal'] **Example:** 01-Jun-2006, Intertie Offer Guarantee Reversal **Context 2: DA_IOG{adj}** **Schema – General:** [Trading Day] , [intertie offer guarantee floor value] , [applicable revenue used in the calculation] , [day-ahead intertie offer guarantee adjustment] **Schema – Format:** [dd-mmm-yyyy] [','] ['IOG_FV='] [',] [intertie offer guarantee floor value to the nearest cent] [',] ['Day-Ahead Intertie Offer Guarantee Adjustment'] **Example:** 28-Jul-2006,IOG_FV=,27120,Day-Ahead Intertie Offer Guarantee Adjustment
1138	4	Trading Hour	The hour in which the underlying *generation facility* was scheduled in the day-ahead *pre-dispatch-of-record* synchronization with the *IESO-controlled grid*
	5	Trading Interval	Always '0'. This *charge type* will be applied on a HOURLY basis

Archive

Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.
	14	Adjustment Comment	The day in which the underlying *generation facility* was scheduled in the day-ahead *pre-dispatch-of-record* to achieve synchronization with the *IESO-controlled grid.*
1300-1308	4	Trading Hour	Always '0'. This charge is applied on a monthly basis.
	5	Trading Interval	Always '0'. This charge is applied on a monthly basis.
	10	Billable Quantity	Indicates the MWh charged/paid for each corresponding *charge type* for the *settlement month.*
	11	Price	This is rate, expressed in $/MWh from DR3 transferred into CBDR.
	14	Adjustment Comment	Schema - General: [Demand Response Account] , [Trading Day] or [Demand Response Account], [Settlement Month] Schema - Format: ['DR3xxxxxxxxxxxxxxxx']['][yyyy/mm/dd] or ['DR3xxxxxxxxxxxxxxxx']['][yyyy/mm]
1309	4	Trading Hour	Always '0'. This charge is applied on a hourly or monthly basis.
	5	Trading Interval	Always '0'. This charge is applied on a hourly or monthly basis.
	10	Billable Quantity	Indicates the contracted capacity.
	11	Price	Indicates the availability rate.
	14	Adjustment Comment	Schema - General: [Settlement Month], [Total Hours of Availability for the Month] Schema - Format: ['Availability Payment for'] [yyyy/mm]['‚']['Total HOA='][total hours of availability for the month]

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Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
1310	4	Trading Hour	Always '0'. This charge is applied on a hourly or monthly basis.
	5	Trading Interval	Always '0'. This charge is applied on a hourly or monthly basis.
	10	Billable Quantity	Indicates the contracted capacity.
	11	Price	Indicates the availability rate.
	14	Adjustment Comment	Schema - General: [Trading Day],[Trading Hour], [Unavailability Factor] Schema - Format: [‘Availability Clawback for Trade Day=’][yyyy/mm/dd][‘,’][‘HE=’][Trading Hour][‘, ’][‘UF=’][unavailability factor rounded up to a max. of 5 decimal places]
1311	4	Trading Hour	Always '0'. This charge is applied on a monthly basis.
	5	Trading Interval	Always '0'. This charge is applied on a monthly basis.
	14	Adjustment Comment	Schema - General: [Settlement Month], [Curtailment Factor], [Availability Payment for Applicable Settlement Month], [total availability clawbacks for applicable settlement month] Schema - Format: [‘Availability Charge for’][yyyy/mm][‘,’][‘CF=’][curtailment factor rounded up to a max. of 5 decimal places][‘,’][‘AP=’][availability payment for applicable settlement month rounded to the nearest cent][‘,’][‘ACl=’][total availability clawbacks for applicable settlement month rounded to the nearest cent]
1312	4	Trading Hour	Always '0'. This charge is applied on a monthly basis.
	5	Trading Interval	Always '0'. This charge is applied on a monthly basis.

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Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	14	Adjustment Comment	Schema - General: [Settlement Month], [Adjustment Factor], [Availability Payment], [Amount Remaining for Adjustment] Schema - Format: [‘Availability Adjustment for’][yyyy/mm][‘,’][‘AF=’][adjustment factor rounded up to a max. of 5 decimal places][‘, ’][‘AP=’][availability payment for applicable settlement month rounded to the nearest cent][‘,’][‘AmtR=’][amount remaining for adjustment for the applicable settlement month calculated as availability payment + total availability clawbacks + availability charge rounded to the nearest cent]
1313	4	Trading Hour	Always '0'. This charge is applied on a unit commitment event basis within a month
	5	Trading Interval	Always '0'. This charge is applied on a unit commitment event basis within a month
	14	Adjustment Comment	Bid Guarantee charges are settled as payments in the settlement month and may be clawed back in the following month if unit commitment criteria (as per contract) are not met Schema - General: [Event ID], [Number of Hours in Event], [Result of Max Events Per Day Not Exceeded Criteria Check], [Result of Economically Scheduled Criteria Check], [Result of Follow Schedule Criteria Check] Schema - Format: [‘Demand Response Bid for Event=’][event id formatted as yyyymmddhh][‘,’][‘NumHr=’][Number of Hours in Event][‘,’][‘Max Events Per Day Not Exceeded=’][‘NA’ for payment, ‘P’ for Pass or ‘F’ for Fail][‘,’][‘Economically Scheduled=’][‘NA’ for payment,‘P’ for Pass or ‘F’ for Fail][‘,’][‘Follow Schedule=’][‘NA’ for payment,‘P’ for Pass or ‘F’ for Fail]
1314	4	Trading Hour	Always ‘0’. This charge is applied on a monthly basis.
	5	Trading Interval	Always ‘0’. This charge is applied on a monthly basis.

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Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	10	Billable Quantity	Indicates the total demand response capacity obligation MW for the month.
	11	Price	Indicates the demand response auction clearing price.
	14	Adjustment Comment	Schema – General: [Obligation ID], [Settlement Month] Schema – Format: [‘Obligation ID=’][Obligation ID][‘, Availability Payment for ’][Settlement Month]
1316	4	Trading Hour	Always ‘0’. This charge is applied on a monthly basis.
	5	Trading Interval	Always ‘0’. This charge is applied on a monthly basis.
	14	Adjustment Comment	Schema – General: [Obligation ID], [Settlement Month], [Reason for Charge] Schema – Format: [‘Obligation ID=’][Obligation ID][‘, DR Capacity Obligation Administration Charge for ’][Settlement Month][‘, Reason for charge:’][Reason for Charge] Where [Reason for Charge] can have the values: • ‘**LATE1**’ – denotes submission not received by initial deadline. • ‘**LATE2**’ – denotes submission not received nor accepted by error-correction deadline.
1317	4	Trading Hour	Always ‘0’. This charge is applied on an hourly basis.
	5	Trading Interval	Always ‘0’. This charge is applied on an hourly basis.
	14	Adjustment Comment	Schema – General: [Obligation ID], [Trading Day of activation event], [Trading Hour] Schema – Format: [‘Obligation ID=’][Obligation ID][‘, Dispatch Charge for Trading Day=’][Trading Day of activation event][‘, HE=’][Trading Hour]
1318	4	Trading Hour	Always ‘0’. This charge is applied on a monthly basis.
	5	Trading Interval	Always ‘0’. This charge is applied on a monthly basis.

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Table 2-8: Manual Line Item Entries – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
	14	Adjustment Comment	Schema – General: [Obligation ID], [Settlement Month] Schema – Format: [‘Obligation ID=’][Obligation ID][‘, Capacity Charge for ’][Settlement Month]
1319	4	Trading Hour	Always ‘0’. This charge is applied when buy-out request is approved.
	5	Trading Interval	Always ‘0’. This charge is applied when buy-out request is approved.
	14	Adjustment Comment	Schema – General: [Obligation ID], [Buy-Out Effective Date][Buy-Out Capacity] Schema – Format: [‘Obligation ID=’][Obligation ID][‘, DR Capacity Obligation Buy-Out for Effective Date=’][Buy-Out Effective Date][‘, Buy-Out Capacity=’][Buy-Out Capacity]
1330-1335,1340-1348, 1380-1386, 1390-1398	4	Trading Hour	Always '0'. This charge is applied on a monthly basis.
	5	Trading Interval	Always '0'. This charge is applied on a monthly basis.
	14	Adjustment Comment	Schema - General: [Settlement Point ID] , [Trading Day] or [Settlement Point ID], [Settlement Month] Schema - Format: [‘DR3xxxxxxxxxxxxxxxxx’][','][yyyy/mm/dd] or [‘DR3xxxxxxxxxxxxxxxxx’][','][yyyy/mm]
1400,1410-1416, 1418, 1419, 1450, 1460-1464, 1466,1468, 1469 1600	4	Trading Hour	Primarily, this *charge type* is applied on a monthly basis as applicable.
	5	Trading Interval	Always ‘0’. This *charge type* will be applied on a monthly basis as applicable.
	14	Adjustment Comment	Comments may be used for residual claims for settlement as may be determined by *applicable law* and subsequent regulation.
1417	4	Trading Hour	This charge is applied on a monthly basis and this field will be ‘0’.
	5	Trading Interval	Always ‘0’. This *charge type* will be applied on a monthly basis as applicable.

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	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.
	8	Location ID	The delivery point ID of the unit operating in condense mode for the trading day.
	10	Billable Quantity	This field contains the billable quantity as per the ancillary service contract
	11	Price	This field contains the daily uplift rate for the ASP.
	14	Adjustment Comment	**Schema – General:** [Trading day], [Reactive condense daily uplift payment] **Schema – Format:** [dd-mmm-yyyy]['']['][Reactive condense daily uplift payment] **Schema – Example:** 11-Oct-2011,Reactive condense daily uplift payment
1420	4	Trading Hour	This charge is applied on a monthly basis and this field will be '0'.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a monthly basis as applicable.
	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.
	14	Adjustment Comment	Comments may be used for residual claims for settlement as may be determined by *applicable law* and subsequent regulation.
1465	4	Trading Hour	This charge is applied on a monthly basis and this field will be '0'.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a monthly basis as applicable.
	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.
	10	Billable Quantity	Billable Quantity will be the MP ID of the MP entity who is making the claim
	14	Adjustment Comment	Comments may be used for residual claims for settlement as may be determined by *applicable law* and subsequent regulation.
9980	4	Trading Hour	This charge is applied on a monthly basis and this field will be '0'.

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	5	Trading Interval	Always '0'. This charge will be applied on a monthly basis.
	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.
	8	Location ID	This charge will be applied to the Smart Metering participant and the Location ID will be blank.
	10	Billable Quantity	The billing quantity used as the basis of the Smart Metering Charge as per the applicable regulation or OEB rate order.
	11	Price	The rate used in conjunction with the Billable Quantity to calculate the Smart Metering Charge as per applicable or OEB rate order.
	14	Adjustment Comment	**Schema – General:** [Month to which the Smart Metering Charge applies][Monthly Smart Metering Charge for General Service (<50kW) and Residential Customers as listed in the OEB "year" Electricity Distributors Yearbook] **Schema – Format:** [yyyy/mm][Monthly Smart Metering Charge for General Service (<50kW) and Residential Customers as listed in the OEB yyyy Electricity Distributors Yearbook] **Schema – Example:** 2013/05 Monthly Smart Metering Charge for General Service (<50kW) and Residential Customers as listed in the OEB 2011 Electricity Distributors Yearbook
9992	4	Trading Hour	This charge is applied on a monthly basis and this field will be '0'.
	5	Trading Interval	Always '0'. This *charge type* will be applied on a monthly basis as applicable.
	7	Zone ID	Zone ID for taxation purposes. Will be 'ONZN' in all instances.
	14	Adjustment Comment	Comments may be used for residual claims for settlement as may be determined by *applicable law* and subsequent regulation.

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9996	4	Trading Hour	Always '0'. This charge is applied on a monthly basis.
	5	Trading Interval	Always '0'. This charge is applied on a monthly basis.
	14	Adjustment Comment	Comments may be used for residual claims for settlement as applicable.

Manual Per Unit Allocation Charge Types

These are 'Manual Per Unit Allocation' *charge types* as described in cross-reference Table 2-5.

As described in section 2.2, the usage of Detail Record (type 'DP') fields by 'per unit allocations' may depart from the general description provided in Table 2-3. This table (2-9) describes the particular use of Detail Record fields (type 'DP') by the particular *charge types* listed in the "Charge Type ID" field below. The field usage described in this table departs from what is normally used by Detail Records as per the general description provided in Table 2-3.

Within Table 2-9 the term, "Total $ for Disbursement" represents monetary amounts (in Canadian dollars, to the nearest cent) manually allocated by Settlements Staff to a set of *Metered Market Participants* on a pro rata basis over *allocated quantities of energy injected* and/or *withdrawn*). Mostly these charges are used to offset Manual Line Items to ensure neutrality. For further information regarding these *charge types* or to garner the associated *market rule* references, please see the Technical Interfaces document entitled, "IESO Charge Types and Equations".

Table 2-9: Per Unit Allocations – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
102	19	Total $ for Disbursement	Total *settlement amount* Authorized for Disbursement.
118	19	Total $ for Disbursement	Total *settlement amount* to be Rebated to *Market Participants*.
146	19	Total $ for Disbursement	Total *settlement amount* paid in *charge types* 194, 195, 193, 197, and 198
163	19	Total $ for Disbursement	Total *settlement amount* paid in *charge type* 113.
164	19	Total $ for Disbursement	Total *settlement amount* paid in *charge type* 114.
165	19	Total $ for Disbursement	Total *settlement amount* paid in *charge type* 115.
166	19	Total $ for Disbursement	Total *settlement amount* paid in *charge type* 116.
167	19	Total $ for Disbursement	Total *settlement amount* to be recovered from *market participants* paid in *charge type* 406 and for *emergency energy*.
168	19	Total $ for Disbursement	Total *settlement amount* to be recovered from *market participants.*

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Table 2-9: Per Unit Allocations – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
169	19	Total $ for Disbursement	Total *settlement amount* to be recovered from *market participants.*
170	19	Total $ for Disbursement	Total *settlement amount* to be Rebated to *market participants*
183	19	Total $ for Disbursement	Total *settlement amount* paid under *charge types* 133 to be collected from *market participants.*
186	19	Total $ for Disbursement	Total *settlement amount* collected from *market participants* under *charge types* 135, 136, 1134, 1135, and 1136 to be distributed to *market participants.*
201, 203, 205	7	Zone ID	This column will only be filled in if the charge is due to *energy* transfer. If the charge is due to uplift reallocation, this field will not be filled in.
	18	Intertie Point Zone ID	This column will only be filled in if the charge is due to *energy* transfer. If the charge is due to uplift reallocation, this field will not be filled in.
	20	Reallocated Quantity	This column will only be filled in if the charge is due to uplift reallocation. If the charge is due to energy transfer, this field will not be filled in. Reallocated Quantity (RQ) as a result of PBCs. This field will only be filled in if the charge is resulting from the reallocation of *physical bilateral contract*s.
201	19	Total $ for Disbursement	Total *settlement amount* collected in *charge type* 251.
203	19	Total $ for Disbursement	Total *settlement amount* collected in *charge type* 253.
205	19	Total $ for Disbursement	Total *settlement amount* collected in *charge type* 255.
450	19	Total $ for Disbursement	Total *settlement amount* paid in *charge type* 400.
451	19	Total $ for Disbursement	Total *settlement amount* paid in *charge type* 1401, 1402, 1404, 1405 and 1451.
452	19	Total $ for Disbursement	Total *settlement amount* paid in *charge type* 1403, 1406, 1407, 1408 and 1409.

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Table 2-9: Per Unit Allocations – Specific Charge Columns

Charge Type ID	Field ID	Short Description	Modified Description
454	19	Total $ for Disbursement	Total *settlement amount* paid in *charge type* 404.
550	19	Total $ for Disbursement	Total *settlement amount* paid in *charge type* 500.
1188	19	Total $ for Disbursement	Total *settlement amount* paid under *charge type* 1138 to be collected from *market participants*
1650	19	Total $ for Disbursement	Total *settlement amount* paid in *charge type* 1600.
9920	19	Total $ for Disbursement	Total *settlement amount* Authroized for Disbursement.
All per unit *charge types*	33	ZONE ID 2	N_MMDDHH_ mmddhh or A_MMDDHH_ mmddhh. The per unit allocation period is from Start Time = MMDDHH to End Time = mmddhh (MM and mm are the start and end months, DD and dd are the start and end days, HH and hh are the start and end hours.) The "N" flag - will be used for normal, month-end charges. The "A" flag will be used for all post final adjustments (due to NOD, Dispute resolutions, etc.) to any uplift charges (any type: hourly or monthly), and for adjustments required by *Administrative Price* Event corrections, Negative Offer Price CMSC revisions, IOG Offset, and Local Market Power.

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3. Real-Time Market Data Files

There are two data files (preliminary and final) issued for a given *trading day*. These data files are only issued for the *real-time market* (see Section 1.5.4). A *settlement* set is for the *real-time market*, a particular type (preliminary vs. final) and trading date. Within each *settlement* set, each *market participant* will receive a data file. Each data file will correspond to a statement, and will have the same *settlement statement* ID.

The data files only contain data that applies to a primary trading date. Each preliminary data file contains the best available listing of *physical bilateral contract data*, zonal price data, schedule data, *bid/offer* data (i.e. *dispatch data*) and optionally - measurement data. The preliminary data file provides each *market participant* supporting data that is used in calculating the preliminary *settlement* for a primary trading date in the *real-time market*. The final *settlement* data file contains the supporting data that applies at the time that the *final settlement statement* is created for a primary trade date. If a situation arises where there is a correction to data after the *preliminary settlement statement* was issued, this new or corrected data quantity will appear in the data file associated with the *final settlement statement* for that primary trading date. If in addition, this quantity resulted in a new charge, the new charge will appear on a *preliminary settlement statement* for a subsequent primary trading date. The data for that new charge will appear in the data file associated with the *final settlement statement* for the original primary trading date.

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

> **[**security level {‘**CNF**’: Confidential**] [**‘–‘**] [**market participant short name**] [**‘_‘**] [**file type {‘**DT’**: Data File}**] [**’–‘**] [**statement type {‘**P’**: Physical (“real-time” market settlement statement)}**] [**’–‘**] [**settlement type {‘**P’**: Preliminary or **‘F’**: Final}**] [**’_‘**] [**primary trade date {**YYYYMMDD**}**] [**’_‘**] [**version number identifying whether this report file was regenerated ‘**v1**’**] [**’.txt‘**]**

For example: “CNF-HONI_DT-P-F_20051231_v1.txt”

The file contains a confidential report,

The data contained is for HONI – Hydro One Networks Inc.,

It is a Data File (‘DT’),

It relates to the Physical Market,

It is related to Settlement Statement Final Data,

It relates to the month of December 2005,

As version is “1” this file is the original run for that date.

Each data file is composed of five sections plus an optional sixth section that may be elected by the *market participant*. The first of these sections is a header record providing information such as statement number, statement type, primary trade date, and the *billing period* total to date. Following this section is a section containing all the *physical bilateral contract data*. The third section contains all the hourly and real-time zonal prices. The fourth section contains all *dispatch instructions* and *market schedules*. The fifth section contains *bid/offer* data (“*dispatch data”*). The optional sixth section contains all *energy* measurements data reported by the Revenue Metering System (RMS) to the Commercial Reconciliation System (CRS).

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3.1 Assigning Data File Contents to the Metered Market Participant

Each *delivery point* within the *IESO control area* must have a *registered market participant* (RMP) and a *metered market participant* (MMP) associated with it. In many cases the RMP and MMP roles for a given *delivery point* may be fulfilled by one in the same *market participant*. However, the *IESO* "Market Rules" do allow for such registrations to be different whereby two different *market participants* may take on the respective RMP and MMP roles for the same *delivery point*. In these circumstances, the *IESO* will (in the first instance) assign all *settlement amounts* incurred in respect to that *delivery point* to the MMP - not the RMP. Any time where a *charge type* of any kind is generated for MMP, the MMP will receive the relevant supporting data in the *settlement* data file.

Table 3-1: Implications of RMP and MMP Relationships at the Same Delivery Point

Situation: / Attribute:	The MMP and the RMP registered for a particular delivery point are the same market participant	The MMP and the RMP registered for a particular delivery point are 2 different market participants
Commercial Responsibility	• MMP/RMP receives/pays all *settlement amounts* with respect to that *delivery point* in the capacity of its MMP role for the *delivery point.*	• The MMP receives/pays all *settlement amounts* with respect to that *delivery point* in the capacity of its MMP role for the *delivery point.*
Impact on Settlements Data	• MMP/RMP receives all *supporting data* with respect to all *charge types* generated for the *delivery poin*t in the capacity of its MMP role for the *delivery point.*	• The MMP receives all *supporting data* with respect to all *charge types* generated for the *delivery poin*t in the capacity of its MMP role for the *delivery point.* • In instances where the RMP has received a *charge type* **of any kind** for the *trading day*, the RMP receives all *supporting data* with respect to all *charge types* generated for the RMP and all schedule, *price* and *bid/offer* data related to that particular *delivery poin*t.
Impact on Transmission Tariffs	• None. *Transmission Tariffs* payable by the *transmission customer* for the relevant *transmission delivery points*.	• None. *Transmission Tariffs* payable by the *transmission customer* for the relevant *transmission delivery points*.
Impact on import/export transactions.	• None. The *market participant* conducting an import export transaction at a relevant CSP/MSP combination has sole responsibility for the transaction.	• None. The *market participant* conducting an import export transaction at a relevant CSP/MSP combination has sole responsibility for the transaction.

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It is also important to remember that an RMP may still have direct financial exposure in the *real-time energy markets* through any combination of activities or roles, including:

- playing an MMP role at any combination of *delivery points*;
- acting in the capacity of a *market participant* conducting an import/export transaction;
- acting in the capacity of a *market participant* receiving an allocated quantity of *energy* withdrawn (AQEW) or an allocated quantity of *energy* withdrawn (AQEI) through the allocation process; and/or
- partaking in a *physical bilateral contract* in the capacity of a *buying market participant* or *selling market participant*;

In situations where such activities result in the generation of a *charge type*, the applicable *market participant* will receive the relevant supporting data in the *settlement* data file.

The following is a detailed description of the data fields in the Data File.

3.2 Data File Header Record

Table 3-2: Data File Header Record Description

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	2	'H'	Indicates the type of record as a File Header Record.
Market Participant ID	Number	15	NNNNNN	The *market participant's* unique identifier.
Trading Date	Date	11	DD-MMM-YYYY	The specific trading date for which the data file is being created.
Statement ID	Number	15		The numeric ID of the pair of *preliminary* and *final settlement statements* for a given primary trading date.
File Type	Varchar	2	'DT'	Indicates the type of file as a data file (not a statement file).
Statement Type	Varchar	1	'P'	Indicates that the type of market is physical.
Settlement Type	Varchar	1	'P' or 'F'	Indicates the type of *settlement* set: preliminary or final.

3.3 Data File Physical Bilateral Contract Data

These records provide the *physical bilateral contract data* used in the corresponding statement for the *market participant*. All the records have the *market participant* as either the buyer or the seller. The records include all contracts with the primary trading date of the corresponding statement as the date.

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Table 3-3: Data File Bilateral Contract Record Description

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'B'	Indicates the type of record.
Seller's Market Participant ID	Number	15	NNNNNN	The unique identifier of the *selling market participant.*
Buyer's Market Participant ID	Number	15	NNNNNN	The unique identifier of the *buying market participant.*
Location ID 1	Number	12		**(NOT USED)**
Location ID 2	Number	12		The location ID of the *physical bilateral contract* location.
Zone ID 1	Varchar	16		**(NOT USED)**
Zone ID 2	Varchar	16	AAAA	The Zone ID of Location ID 2.
Trading Date	Date	11	DD-MMM-YYYY	The specific *trading day* of the physical bilateral contract.
Trading Hour	Number	2	1-24	The *settlement hour* of the physical bilateral contract.
Trading Interval	Number	2	0	-always zero ('0') - *Physical Bilateral Contracts* only pertain to one or more ***settlement hours*** in a given *trading day*
NEMSC *Hourly Uplift* Component reallocation (ref. *charge type* 150)	Varchar	1	'N' or 'Y'	Indicates whether the component of *hourly uplift* derived from losses (the "NEMSC uplift") will be reallocated.
ORSC *Hourly Uplift* Component reallocation (ref. *charge types* 250, 252, 254)	Varchar	1	'N' or 'Y'	Indicates whether the *operating reserve* component of *hourly uplift* market *settlement* credit will be reallocated.
IFCR (formerly known as CAPRSC) *Hourly Uplift* Component reallocation	Varchar	1	'N' or 'Y'	Indicates whether the Intertie Failure Charge Rebate component of *hourly uplift* will be reallocated.
CMSC *Hourly Uplift* Component reallocation (ref. *charge type* 155)	Varchar	1	'N' or 'Y'	Indicates whether the congestion management *settlement* credit component of *hourly uplift* will be reallocated.

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Table 3-3: Data File Bilateral Contract Record Description

Field	Type	Max Field Length	Domain	Description
TRSC Credit (NOT USED)	Varchar	1	'N'	Indicates whether the *transmission rights settlement* credit will be reallocated. **(NOT USED) –** see section 2.5 of, "IESO Charge Types and Equations" for further details.
TCRF Contribution (NOT USED)	Varchar	1	'N'	Indicates whether the *transmission charge reduction fund* contribution will be reallocated. **(NOT USED) –** see section 2.5 of, "IESO Charge Types and Equations" for further details.
CRSSD *Hourly Uplift* Component reallocation (ref. *charge type* 301) (NOT USED)	Varchar	1	'N' or 'Y'	Indicates whether the *capacity reserve settlement* debit component of *hourly uplift* will be reallocated. **(NOT USED) –** see section 2.5 of, "IESO Charge Types and Equations" for further details.
ORSSD *Hourly Uplift* Component reallocation (ref. *charge types* 201, 203, 205,)	Varchar	1	'N' or 'Y'	Indicates whether the *operating reserve settlement* debit component of *hourly uplift* will be reallocated.
PBC Percent Flag	Varchar	1	'N' or 'Y'	Indicates that the *selling market participant* indicated that the "Traded Quantity" should be derived from 100% of the *delivery point* value at the location specified in "Location ID 2" (when applicable – see *IESO* "Market Rules" Baseline 6, Ch. 8, Section 2.3 for details).
Traded Quantity	Number	11,3		The quantity in MWh traded in the *physical bilateral contract.*

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3.4 Data File Zonal Price Data

These records provide all real-time and hourly zonal prices used in the corresponding statement. Because prices are over zones instead of *market participants*, all prices for the primary trading date are included.

Table 3-4: Data File Zonal Price Record Description

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'P'	Indicates the type of record as a Zonal Price Data record.
Price Type	Varchar	1	'H'	Indicates the type of price is the *Hourly Ontario Energy Price (HOEP).*
			'R'	Indicates the type of price is the 5-minute real-time *Energy Market Price (EMP*)
			'P'	Indicates the type of price is from the hour-ahead *pre-dispatch* process (PD_EMP)
Trading Date	Date	11	DD-MMM-YYYY	The specific trading date for which the price is effective.
Hour	Number	2	1-24	The hour for which the price is effective.
Minute Interval	Number	2	0-12	The minute for which the price is effective (0 for hourly prices).
Zone ID	Varchar	16	AAAA	The zone for which the price is effective.
Price	Number	10,5		The price in $/MWh.

3.5 Data File Schedules Data

These records provide the market and *dispatch* schedules data used in the corresponding statement for the *market participant*. They include all schedules data with the primary trading date of the corresponding statement as the date.

Table 3-5: Data File Schedule Data Record Description

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'S'	Indicates the type of record as a Schedules Data Record.
Location ID	Number	12	NNNNNN	The location of the schedule.

Table 3-5: Data File Schedule Data Record Description

Field	Type	Max Field Length	Domain	Description
Location Type	Varchar	1	'G'	Identifies the location type of the location as a *registered facility* that is a *generation facility* or a *boundary entity* for the purposes of an **import**.
			'L'	Identifies the location type of the location as a *registered facility* that is a *load facility* or a *boundary entity* for the purposes of an **export**.
Location Subtype	Varchar	1	'D'	The location subtype of the location is that of a *dispatchable facility.*
			'N'	The location subtype of the location is that of a *non-dispatchable facility.*
Market Type	Varchar	1	'D'	Indicates that the record is part of the *dispatch (real-time) schedule*.
			'M'	Indicates that the record is part of the *market schedule.*
			'P'	Indicates the record is from the hour-ahead *pre-dispatch* process
			'R'	Indicates the record is from the day-ahead *schedule of record* process

Table 3-5: Data File Schedule Data Record Description (cont'd)

Field	Type	Max Field Length	Domain	Description
Scheduling Component ID	Number	2	1	Indicates the type of schedule is for *energy* (MW).
			2	Indicates the type of schedule is for 10-minute spinning *Operating Reserve* (MW).
			3	Indicates the type of schedule is for 10-minute Non-spinning *Operating Reserve* (MW).
			4	Indicates the type of schedule is for 30-minute *Operating Reserve* (MW).
Trading Date	Date	11	DD-MMM-YYYY	The specific trading date for which the schedule is effective.

Table 3-5: Data File Schedule Data Record Description

Field	Type	Max Field Length	Domain	Description
Trading Hour	Number	2	1-24	The trading hour for which the schedule is effective.
Trading Interval	Number	2	1-12 Or '0'	The trading interval for which the schedule is effective. Always '0' for "Market Type 'R'" when the record is from the day-ahead *pre-dispatch-of-record* process (hourly resolution) or "Market Type 'P'" when the record is from the hour-ahead *pre-dispatch* process (hourly resolution)
Zone ID	Varchar	16	AAAA	The zone for which the schedule is effective.
Scheduled Quantity	Number	11,3		The quantity in MWh that is scheduled.
Tie Point ID	Number	12	NNNNNN	The location ID of the tie point used for the scheduled import or export.
Tie Point Zone ID	Varchar	16	AAAA	Zone ID for the tie point in previous row.
Reason Code	Varchar	4	'TLRE'	• denotes External Transmission Loading Relief (TLRE) events where **NO** CMSC payments should be provided as per normal calculations. • EXEMPTS the *market participant* from the Day-Ahead or real-time intertie failure charges (*charge types* 135, 136, 1134, 1135 and 1136)
			'TLRI'	• denotes Internal Transmission Loading Relief (TLRI) events where CMSC payments should be provided as per normal calculations. • EXEMPTS the *market participant* from the Day-Ahead or real-time intertie failure charges (*charge types* 135, 136, 1134, 1135 and 1136)

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Table 3-5: Data File Schedule Data Record Description

Field	Type	Max Field Length	Domain	Description
			'OTH'	• denotes other (OTH) constraining events at the *interties* where **NO** CMSC payments should be provided as per normal calculations. • DOES NOT exempt the *market participant* from the Day-Ahead or real-time intertie failure charges (*charge types* 135, 136, 1134, 1135 and 1136)
			'ORA'	• denotes Operating Reserve Activation (ORA) events where CMSC payments should be provided. • **NOTE:** Day-Ahead Import, Export or Linked Wheel transactions with a ORA Reason Code may be exempted from the Day-Ahead Failure Charges (*charge types* 1134, 1135, 1136) on the basis of their real-time *bid* or *offer* price. Please see in *IESO Charge Types and Equa*tions (IMP_LST_0001 – Issue 20.1 or higher), section 2.6 which describes this process in detail. • Exempts the *market participant* from the real-time intertie failure charges (*charge types* 135 and 136)

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Table 3-5: Data File Schedule Data Record Description

Field	Type	Max Field Length	Domain	Description
			'AUTO'	• Denotes a constraining event triggered without intra-hour manual intervention where CMSC payments should be provided – OR - the absence of any constraining event at the *interties* at all. • **NOTE:** Day-Ahead Import, Export or Linked Wheel transactions with an AUTO Reason Code may be exempted from the Day-Ahead Failure Charges (*charge types* 1134, 1135, 1136) on the basis of their real-time *bid* or *offer* price. Please see in *IESO Charge Types and Equa*tions (IMP_LST_0001 – Issue 20.1 or higher), section 2.6 which describes this process in detail. • Exempts the *market participant* from the real-time intertie failure charges (*charge types* 135 and 136)
			'MrNh'	• denotes MISO Ramp / Transmission Service or NYISO HAM protocol (MrNh) constraining events at the *interties* where **NO** CMSC payments should be provided as per normal calculations • DOES NOT exempt the *market participant* from the Day-Ahead Failure Charges (*charge types* 1134, 1135 and 1136) • EXEMPTS the *market participant* from the real-time intertie failure charges (*charge types* 135, and 136)

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Table 3-5: Data File Schedule Data Record Description

Field	Type	Max Field Length	Domain	Description
			'NY90'	• Denotes NYISO – IESO 90 Minute Checkout (NY90) constraining events at the *interties* where CMSC payments should be provided – OR - the absence of any constraining event at the *interties* at all. • **NOTE:** Day-Ahead Import, Export or Linked Wheel transactions with a NY90 Reason Code may be exempted from the Day-Ahead Failure Charges (*charge types* 1134, 1135, 1136) on the basis of their real-time *bid* or *offer* price. Please see in *IESO Charge Types and Equa*tions (IMP_LST_0001 – Issue 20.1 or higher), section 2.6 which describes this process in detail. • Exempts the *market participant* from the real-time intertie failure charges (*charge types* 135 and 136)
			'ADQh'	• Denotes IESO Hourly Adequacy (ADQh) constraining events at the *interties* where **NO** CMSC payments should be provided as per normal calculations. • **NOTE:** Day-Ahead Import, Export or Linked Wheel transactions with a ADQh Reason Code may be exempted from the Day-Ahead Failure Charges (*charge types* 1134, 1135, 1136) on the basis of their real-time *bid* or *offer* price. Please see in *IESO Charge Types and Equa*tions (IMP_LST_0001 – Issue 20.1 or higher), section 2.6 which describes this process in detail. • EXEMPTS the *market participant* from the real-time intertie failure charges (*charge types* 135 and 136)

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Table 3-5: Data File Schedule Data Record Description

Field	Type	Max Field Length	Domain	Description
			{NULL}	The above codes apply to occurrences *charge types* 105, 106, 107, and 108 for *intertie* transactions only. For instances where *charge types* 106, 107, and 108 are applicable to the non-*intertie* transactions, the corresponding data contained in this field will have a null value. For instances where *charge type* 105 is applicable to non-*intertie*, non-variable generator transactions, the corresponding data contained in this field will have a null value.
			'VGNE'	This reason code only applies to qualified variable generators. Denotes that the variable generator is operating under a release notification and NO CMSC payments should be provided as per normal calculations.
			'VGE1'	This reason code only applies to variable generators . Denotes a constraining event when the variable generator is operating under a release notification.
NERC Tag	Varchar	40		NERC tag

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3.6 Data File Bid/Offer Data

These records provide the *energy* and *operating reserve bid* and *offer* data used in the corresponding statement for the *market participant*. They include all *bid/offer* data with the primary trading date of the corresponding statement as the date.

Table 3-6: Data File Bid/Offer Record Description

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'V'	Indicates the type of record as a *bid/offer* data record.
Location ID	Number	12	NNNNNN	The location of the bid/offer.
Zone ID	Varchar	16	AAAA	The corresponding zone of the bid/offer.
Tie Point ID	Number	12	NNNNNN	The location ID of the tie point used for the import or export.
Tie Point Zone ID	Varchar	16	AAAA	The zone ID of where the tie point is found.
Scheduling Component ID	Number	2	1	Indicates the type of bid/offer is for *energy* (MW).
			2	Indicates the type of offer is for 10-minute spinning *Operating Reserve* (MW).
			3	Indicates the type of offer is for 10-minute Non-spinning *Operating Reserve* (MW).
			4	Indicates the type of offer is for 30-minute *Operating Reserve* (MW).
			5	Indicates the type of bid/offer is for *energy* (MW) submitted into the day-ahead *schedule-of-record*.
			10	Indicates the type of bid/offer is for *energy* (MW) submitted into the hour-ahead *pre-dispatch.*
			11	Indicates the type of offer is for Pseudo-units submitted into the day-ahead schedule of record
			12	Indicate the type of offer is for the derived interval price curve for pseudo-units.
Trading Date	Date	11	DD-MMM-YYYY	The specific trading date for which the bid/offer is effective.

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Table 3-6: Data File Bid/Offer Record Description

Field	Type	Max Field Length	Domain	Description
Trading Hour	Number	2	1-24	The hour for which the bid/offer is effective.
Trading Interval	Number	2	0	always zero ('0')
Number of pairs	Varchar	2	0-20 (0-5)	The number of *quantity/price* (q-p) *pairs* contained within the *energy/operating reserve bid/offer*. *Energy bid/offer* curves may have a maximum of 20 pairs while *Operating Reserve offer* curves may have a maximum of 5 pairs.
Quantity 1	Number	11,3		
Price 1	Number	10,5		
Quantity 2	Number	11,3		
Price 2	Number	10,5		
Quantity 3	Number	11,3		
Price 3	Number	10,5		
Quantity 4	Number	11,3		
Price 4	Number	10,5		
Quantity 5	Number	11,3		
Price 5	Number	10,5		
Quantity 6	Number	11,3		
Price 6	Number	10,5		
Quantity 7	Number	11,3		
Price 7	Number	10,5		
Quantity 8	Number	11,3		
Price 8	Number	10,5		
Quantity 9	Number	11,3		
Price 9	Number	10,5		
Quantity 10	Number	11,3		
Price 10	Number	10,5		
Quantity 11	Number	11,3		
Price 11	Number	10,5		
Quantity 12	Number	11,3		
Price 12	Number	10,5		

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Table 3-6: Data File Bid/Offer Record Description

Field	Type	Max Field Length	Domain	Description
Quantity 13	Number	11,3		
Price 13	Number	10,5		
Quantity 14	Number	11,3		
Price 14	Number	10,5		
Quantity 15	Number	11,3		
Price 15	Number	10,5		
Quantity 16	Number	11,3		
Price 16	Number	10,5		
Quantity 17	Number	11,3		
Price 17	Number	10,5		
Quantity 18	Number	11,3		
Price 18	Number	10,5		
Quantity 19	Number	11,3		
Price 19	Number	10,5		
Quantity 20	Number	11,3		
Price 20	Number	10,5		
Speed-no-load	Number	20,2		Submitted speed-no-load cost. Applicable to day ahead submitted offers only (Scheduling Components 5, 11). Otherwise, value will be NULL)
Start-up cost	Number	20,2		Submitted start up cost. Applicable to day ahead submitted offers only (Scheduling Components 5, 11). Otherwise, value will be NULL)

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3.7 Measurement Data (Optional)

3.7.1 Election to Receive Measurement Data

Measurement Data Records (Record Type 'M") are optionally provided to eligible *market participants* at their request. The procedures for requesting such measurements are described in Section 1.8.3 of *Market Manual* 5.5 entitled, "Physical Markets Settlement Statements".

3.7.2 Metering Data versus Delivery Point Measurements

The *IESO* Revenue Metering System (RMS) will net metering injection and withdrawal channels within each trading interval (i.e. intervals 1 through 12) for each trading hour of each *trading day* and report either net withdrawal (W) or net injection (I) values for each 5-minute trading interval for each *delivery point* defined for *physical market* charges. Metering that reports at 15-minute intervals will be reduced to 5-minute interval data by dividing each 15-minute report by 3. The resulting 5-minute measurements are reported to the *IESO* Commercial Reconciliation System (CRS) for each *delivery point* at which the *market participant* has been designated as the *metered market participant* (MMP) for the *trading day.*

Market participants should anticipate receiving measurement data for all *delivery points* defined for *physical market* charges at which the *market participant* is designated as the MMP.

3.7.3 Other IESO Defined Delivery Points

The *IESO* defines multiple *delivery points* for the purpose of totalling and loss adjusting *energy* readings used for calculating *physical market* charges and separately for calculating *transmission tariff* charges. Measurement Data Records are not produced for these transmission *delivery points*.

However, measurements can be reported for any *delivery point* defined for *transmission tariff* charges if there is an erroneous designation of a MMP for a transmission *delivery point* during the *IESO* registration process. Such registration errors are expected to be rare but are possible. Measurements reported at *delivery points* defined for *transmission tariff* charges will have no impact on the calculation of *physical market* charges since the *IESO* Commercial Reconciliation System blocks the processing of such measurements.

To aid the *IESO* and *market participants* in identifying any erroneous inclusion of measurements from *delivery points* defined for *transmission tariff* charges, measurement data records (record type M) include the *delivery point* type including the TDPN and TDPC designations used for the *transmission tariff* calculations.

Market participants should screen the measurement data to exclude measurements from unexpected *delivery points*.

3.7.4 Measurement Data File Format

These records provide the details of each 5-minute interval measurement that was used in the determination of the Preliminary or Final *settlement* for every *delivery point* for which the specific *market participant* has been registered as MMP.

The file contains data for one *trading day* for each *delivery point* at which the *market participant* has been designated as the *metered market participant* (MMP) for the *trading day.*

Table 3-7: Data file Measurement Data Record Description

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'M'	Indicates an hourly measurement data record.
Delivery Point ID	Number	12	NNNNNN	The *delivery point* ID assigned by the *IESO*. The *delivery point* ID is a 6-character identifier.
Delivery Point Type	Char	4	'G'	'G' – Indicates that the *delivery point* is classified as a *Generator*.
			'L'	'L'– Indicates that the *delivery point* is classified as a Load.
			'N'	'N'– Indicates that the *delivery point* is classified as a Transmission *Delivery Point* for Network *transmission service charges* (650).
			'C'	'C'– Indicates that the *delivery point* is classified as a Transmission *Delivery Point* for Connection *transmission service charges* (651 and 652).
Delivery Point Sub Type	Char	1	'D'	Indicates that the *delivery point sub type* is 'Dispatchable'.
			'N'	Indicates that the *delivery point sub type* is 'Non-Dispatchable'.
			'X'	Indicates that the *delivery point* does not have an applicable Sub Type. This is only used when *Delivery Point* Type is 'N' or 'C'.
Trading Date	Date	N/A	DD-MMM-YYYY	The specific trading date of the interval measurement.
Trading Hour	Number	2	1-24	The specific hour of the interval measurement.
Trading Interval	Number	2	1-12	The specific 5-minute interval in the trading hour.
Zone_ID	Varchar	12	AAAA	The zone in which the *delivery point* is located.
Measurement Quantity	Number	11,3		Indicates the 5-minute interval measurement quantity in Megawatts or Megavars.
UOM	Varchar	1	'W'	'W' - Unit of Measurement for the 5-minute interval measurement data record is in Megawatts.

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Field	Type	Max Field Length	Domain	Description
			'V'	'V' – Unit of Measurement for the 5-minute interval measurement data record is in Megavars. N.B. At market start the *metered market participant* should not expect to receive megavar measurements as part of this data file.
Actual Estimate Indicator	Varchar	1	'A'	Indicates that the 5-minute interval measurement is based on validated *metering data* as reported by a *main/alternate metering installation*.
Injection Withdrawal Indicator	Varchar	1	'I'	Indicates that the 5-minute interval measurement represents a net injection in the 5-minute interval.
			'W'	Indicates that the 5-minute interval measurement represents a net withdrawal in the 5-minute interval.
Update Date Time	Date / Time	N/A	YYYY-MM-DD-hh:mm:ss	Indicates the last date time that this measurement was reported from the Revenue Metering System. Time will be reported on a 24-hour clock.

3.8 Data File Withdrawal Data

These records provide the withdrawal data used in the corresponding statement for the *market participant*. They include all *withdrawal* data within the market participant's control with the primary trading date of the corresponding statement as the date.

Table 3-8: Data file Withdrawal Data

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'W'	Indicates the type of record as a *withdrawal* data record.
Location ID	Number	12	NNNNNN	The location of the withdrawn offer.
Request Time	Date	16	DD/MM/YYYY HH:MM	The time the withdrawal request was approved by the IESO.

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Field	Type	Max Field Length	Domain	Description
Trading Date	Date	11	DD-MMM-YYYY	The specific trading date for which the withdrawal is effective.
Trading Hour	Number	2	1-24	The hour for which the withdrawal is effective.
Trading Interval	Number	2	0	always zero (‘0’)

3.9 Data File Daily Generation Data

These records provide the daily generation data (DGD) for physical units (PU) and for pseudo units (PSU), calculated by the IESO, and used in the corresponding statement for the *market participant*. They include all *daily generation data* with the primary trading date of the corresponding statement as the date.

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Table 3-9: Data file Daily Generation Data

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'G'	Indicates the type of record as a DGD record.
Location ID	Number	12	NNNNNN	The location of the DGD.
Trading Date	Date	11	DD-MMM-YYYY	The specific trading date for which the DGD is effective.
Single Cycle Mode	Varchar	1	A	A value "N" indicates that the associated PSU operates in combined cycle mode (ST contribution enabled). A value "Y" indicates the PSU operates in single cycle mode (ST contribution disabled). Field is applicable to PU CTs only.
MLP 1-1	Number	10,5		MLP for 1-1
MLP 2-1	Number	10,5		MLP for 2-1 Field is applicable to PU only
MLP 3-1	Number	10,5		MLP for 3-1 Field is applicable to PU only
MLP 4-1	Number	10,5		MLP for 4-1 Field is applicable to PU only
MGBRT	Number	10,5		Minimum generation block run-time
PSU-OR-1	Number	10,5		PSU Operating region for the lower limit. Field is applicable to PSU only.
ST-OR-1	Number	10,5		The lower limit operating region ST portion. Field is applicable to PSU only.
PSU-OR-2	Number	10,5		PSU Operating region for the middle limit. Field is applicable to PSU only
ST-OR-2	Number	10,5		The middle limit operating region ST portion. Field is applicable to PSU only
PSU-OR-3	Number	10,5		PSU Operating region for the upper limit. Field is applicable to PSU only
ST-OR-3	Number	10,5		The upper limit operating region ST portion. Field is applicable to PSU only

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3.10 Data File MLP Constrained Schedule Data

These records provide the MLP constrained schedule quantities calculated by the IESO and used in the corresponding statement for the *market participant*. They include all *MLP constrained schedule quantities* with the primary trading date of the corresponding statement as the date.

Table 3-10: Data file MLP Constrained Schedule Data

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'C'	Indicates the type of record as a *MLP constrained schedule* data record.
Location ID	Number	12	NNNNNN	The location of the schedule.
Trading Date	Date	11	DD-MMM-YYYY	The specific trading date for which the schedule is effective.
Trading Hour	Number	2	1-24	The hour for which the schedule is effective.
Trading Interval	Number	2	0	always zero ('0')
MLP_Const_Qty	Number	10,5		The calculated MLP constrained quantity for the combustion turbine.

3.11 Data File Outages Data

These records provide the outages used in the corresponding statement for the *market participant*. They include all *outages* with the primary trading date of the corresponding statement as the date.

Table 3-11: Data file Outages Data

Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'O'	Indicates the type of record as an outage data record.
Location ID	Number	12	NNNNNN	The location of the outage.
Trading Date	Date	11	DD-MMM-YYYY	The specific trading date for which the outage is effective.
Trading Hour	Number	2	1-24	The hour for which the outage is effective.
Trading Interval	Number	2	1 - 12	The interval for which the outage is effective.

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Field	Type	Max Field Length	Domain	Description
Outage MW	Number	10	5	The de-rated value of the generator.

3.12 Nodal Price Data

These records provide market participants with day-ahead and pre-dispatch nodal price data used in the corresponding statement for the *market participant*. They include all *nodal prices* with the primary trading date of the corresponding statement as the date.

Table 3-12: Nodal Price Data Field	Type	Max Field Length	Domain	Description
Record Type	Varchar	1	'N'	Indicates the type of record is a Nodal Price Data record.
Price Type	Varchar	1	'X'	Indicate the type of record is a day-ahead nodal price
			'Q'	Indicate the type of record is a pre-dispatch nodal price
Trading Date	Date	11	DD-MMM-YYYY	The specific trading date for which the price is effective.
Hour	Number	2	1-24	The hour for which the price is effective.
Minute Interval	Number	2	0-12	The minute for which the price is effective (0 for day-ahead and pre-dispatch hourly prices).
Location ID	Number	12	NNNNNN	The location of the price.
Zone ID	Varchar	16	AAAA	The zone for which the price is effective.
Price	Number	12,5		The price in $/MWh. Calculated prices will be capped to a maximum of 9999999.00 and a minimum of -9999999.00.

– End of Section –

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Appendix A: Charge Type Column Cross Reference

A.1 Automatic Charges

A.1.1 Primary Charge Column Cross Reference

1	2	Name	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
record type	charge type		trading date	trading hour	trading interval	settlement amount	zone id	location id	settlement type	billable quantity	price	price 1	price 2	sum of AQEW and scheduled export quantity	location 1	location 2	intertie metering point ID	intertie metering point zone	total quantity to uplift/allocate	constant	bilateral tax rate for charge types 100 & 101	scheduled import quantity	scheduled export quantity	allocated quantity of energy withdrawn	allocated quantity of energy injected	total bilateral quantity sold	total bilateral quantity bought	amount 1	amount 2 (bilateral tax amount for charge types 100 & 101)	amount 3	per unit charge id	zone id 1 or Reason Code or Transmitter	zone id 2	tax rate	tax amount
DP	52	Transmission Rights Auction Settlement Debit	trade date	trade hour	trade interval (always '0')	X			P, F or C	Quantity of Transmission Rights Bought	Auction Price for Rights Purchased																						Source Zone	Sink Zone		
DP	100	Net Energy Market Settlement for Generators and Dispatchable Load	trade date	trade hour	trade interval	X	Zone ID	Delivery Point ID	P, F or C	Sum of AQEI, SQEI, AQEW, SQEW and BCQ	Energy Market Price (EMP)						Tie Point ID	Tie Point Zone			Physical Bilateral Contract Tax Rate (%)	SQEI or Zero (0)	SQEW or Zero (0)	AQEW or Zero (0)	AQEI or Zero (0)	BCQ or Zero (0)	BCQ or Zero (0)		Physical Bilateral Contract Tax Amount ($)					Tax Rate (%)	Tax Amount ($)
DP	101	Net Energy Market Settlement for Non-dispatchable Load	trade date	trade hour	trade interval (always '0')	X	Zone ID	Delivery Point ID	P, F or C			HOEP									Physical Bilateral Contract Tax Rate (%)	Zero (0)	Zero (0)	AQEW or Zero (0)	AQEI or Zero (0)		BCQ or Zero (0)	Sum of BCQ x EMP for Twelve Intervals	Physical Bilateral Contract Tax Amount ($)					Tax Rate (%)	Tax Amount ($)
DP	103	Transmission Charge Reduction Fund	trade date	trade hour	trade interval (always '0')	X			P, F or C																			Net Congestion Rentals	Sum of the Transmission Rights Settlement Credit (TRSC) for all MPs						
DP	104	Transmission Rights Settlement Credit	trade date	trade hour	trade interval (always '0')	X			P, F or C	Quantity of Transmission Rights Owned (QTR)	Intertie Congestion Price (ICP)																					Source Zone	Sink Zone	Tax Rate (%)	Tax Amount ($)
DP	105	Congestion Management Settlement Credit for Energy	trade date	trade hour	trade interval	X	Zone ID	Delivery Point ID	P, F or C				Lower Limit or NULL				Tie Point ID	Tie Point Zone										OP (MQSI/W)	OP (DQSI/W)	OP (AQEI/W)		Reason Code or NULL		Tax Rate (%)	Tax Amount ($)
DP	106	Congestion Management Settlement Credit for 10 Minute Spinning Reserve	trade date	trade hour	trade interval	X	Zone ID	Delivery Point ID	P, F or C								Tie Point ID	Tie Point Zone										OP (SQROR)	OP (DQSR)	OP (AQOR) Note: For Reserves DQSR=AQOR		Reason Code or NULL		Tax Rate (%)	Tax Amount ($)
DP	107	Congestion Management Settlement Credit for 10 Minute Non-spinning Reserve	trade date	trade hour	trade interval	X	Zone ID	Delivery Point ID	P, F or C								Tie Point ID	Tie Point Zone										OP (SQROR)	OP (DQSR)	OP (AQOR) Note: For Reserves DQSR=AQOR		Reason Code or NULL		Tax Rate (%)	Tax Amount ($)
DP	108	Congestion Management Settlement Credit for 30 Minute Operating Reserve	trade date	trade hour	trade interval	X	Zone ID	Delivery Point ID	P, F or C								Tie Point ID	Tie Point Zone										OP (SQROR)	OP (DQSR)	OP (AQOR) Note: For Reserves DQSR=AQOR		Reason Code or NULL		Tax Rate (%)	Tax Amount ($)

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1	2	Name	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
record type	charge type		trading date	trading hour	trading interval	settlement amount	zone id	location id	settlement type	billable quantity	price	price 1	price 2	sum of AQEW and scheduled export quantity	location 1	location 2	intertie metering point ID	intertie metering point zone	total quantity to uplift/allocate	constant	bilateral tax rate for charge types 100 & 101	scheduled import quantity	scheduled export quantity	allocated quantity of energy withdrawn	allocated quantity of energy injected	total bilateral quantity sold	total bilateral quantity bought	amount 1	amount 2 (bilateral tax amount for charge types 100 & 101)	amount 3	per unit charge id	zone id 1 or Reason Code or Transmitter	zone id 2	tax rate	tax amount
DP	112	Business Protection Plan Rebate	trade date	trade hour (always '0')	trade interval (always '0')	X	Zone ID		P, F or C													Zero (0)	Zero (0)	Sum of AQEW for the Settlement Period for the MP	Zero (0)									Tax Rate (%)	Tax Amount ($)
DP	122	Ramp-down Settlement Amount	trade date	trade hour	trade interval	X	Zone ID "ONZN"	Delivery Point ID	P, F or C		Start Ramp-down Hour	Start Ramp-down interval								Start Ramp-down date								OP (MQSI)	OP (DQSI)	OP (AQEI)				Tax Rate (%)	Tax Amount ($)
DP	130	Intertie Offer Guarantee Settlement Credit - Energy	trade date	trade hour	trade interval (always '0')	X	Zone ID	CSP ID	P, F or C								Tie Point ID	Tie Point Zone										-1 * OP (MQSI)						Tax Rate (%)	Tax Amount ($)
DP	135	Real-time Import Failure Charge	Trade date	trade hour	trade interval (always '0')	X	Zone ID	CSP ID	P, F or C								Tie Point ID	Tie Point Zone				RT_ISD								PB_IM				Tax Rate (%)	Tax Amount ($)
DP	136	Real-time Export Failure Charge	Trade date	trade hour	trade interval (always '0')	X	Zone ID	CSP ID	P, F or C								Tie Point ID	Tie Point Zone					RT_ESD							PB_EX				Tax Rate (%)	Tax Amount ($)
DP	140	Fixed Energy Rate Settlement Amount	X	X	X (Always '0')	X	X "ONZN"		P, F or C	X	Fixed Energy Rate (FP_h^m)																							Tax Rate (%)	Tax Amount ($)
DP	141	Fixed Wholesale Charge Rate Settlement Amount	X	X (Always '0')	X (Always '0')	X	X "ONZN"		P, F or C	X	Fixed Rate for a designated group of *charge types* (FPC_h^m)																							Tax Rate (%)	Tax Amount ($)
DP	144	Regulated Generation Contract Adjustment - Nuclear	X	X	X	X	X "ONZN"	X (designated DP for each station)	P, F or C	Sum of AQEI	MCP if applicable	Hoep if applicable	Regulated Rate (RP)	Factor (%) applied to the amount of generation used																				Tax Rate (%)	Tax Amount ($)
DP	145	Regulated Generation Contract Adjustment – Hydro electric	X	X	X	X	X "ONZN"	X (designated DP for each station)	P, F or C	Total station AQEI for the interval, if station AQEI for	MCP e		Regulated Rate (RP)	Total Station AQEI for the hour						Threshold Generation Amount														Tax Rate (%)	Tax Amount ($)
DP	146	Global Adjustment Settlement Amount	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	X "ONZN"	(Blank)	P, F or C					Total of AQEW & EGEI minus EEQ used in calculation of uplift					Total quantity to uplift/allocated	Sum of EEQ for the Settlement period for the MP		Zero (0)	Zero (0)	Sum of AQEW for the Settlement Period for the MP	Sum of EGEI for the Settlement Period for the MP									Tax Rate (%)	Tax Amount ($)
DP	147	Class A Global Adjustment Settlement Amount	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	X "ONZN"	(Blank)	P, F or C										Total quantity to uplift/allocated														Peak Demand Factor	Tax Rate (%)	Tax Amount ($)

1	2	Name	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
record type	charge type		trading date	trading hour	trading interval	settlement amount	zone id	location id	settlement type	billable quantity	price	price 1	price 2	sum of AQEW and scheduled export quantity	location 1	location 2	intertie metering point ID	intertie metering point zone	total quantity to uplift/allocate	constant	bilateral tax rate for charge types 100 & 101	scheduled import quantity	scheduled export quantity	allocated quantity of energy withdrawn	allocated quantity of energy injected	total bilateral quantity sold	total bilateral quantity bought	amount 1	amount 2 (bilateral tax amount for charge types 100 & 101)	amount 3	per unit charge id	zone id 1 or Reason Code or Transmitter	zone id 2	tax rate	tax amount
DP	148	Class B Global Adjustment Settlement Amount	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	X "ONZN"	(Blank)	P, F or C					Total of AQEW for Class B market participants used in calculation					Total quantity to uplift/allocated	Sum of EEQ for the Settlement period for the MP		Zero (0)	Zero (0)	Class B AQEW for the Settlement Period for the MP	Sum of EGEI for the Settlement Period for the MP			Ancillary Service AQEW for the Settlement Period for the MP	AQEW at Beck PGS for the Settlement Period					Tax Rate (%)	Tax Amount ($)
DP	190	Fixed Energy Rate Balancing Amount	X	X	X (Always '0')	X	X "ONZN"		P, F or C																									Tax Rate (%)	Tax Amount ($)
DP	191	Fixed Wholesale Charge Rate Balancing Amount	X	X (Always '0')	X (Always '0')	X	X "ONZN"		P, F or C																									Tax Rate (%)	Tax Amount ($)
DP	194	Regulated Generation Contract Balancing Amount – Nuclear	X	X	X	X	X "ONZN"	X (designated DP for each station)	P, F or C	Sum of AQEI	MCP if applicable	Hoep if applicable	Regulated Rate (RP)	Factor (%) applied to the amount of generation used																				Tax Rate (%)	Tax Amount ($)
DP	195	Regulated Generation Contract Balancing Amount – Hydro electric	X	X	X	X	X "ONZN"	X (designated DP for each station)	P, F or C	Total station AQEI for the interval, if station AQEI for	MCP		Regulated Rate (RP)	Total Station AQEI for the hour						Threshold Generation Amount					DP AQEI for the interval										Tax Rate (%)	Tax Amount ($)
DP	196	Global Adjustment Balancing Amount	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	X "ONZN"	(Blank)	P, F or C					Class B \					Total quantity to uplift/allocated																Zero (0)	Zero (0)
DP	197	Global Adjustment – Special Programs Balancing Amount	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	X "ONZN"	(Blank)	P, F or C										Total quantity to uplift/allocated																Zero (0)	Zero (0)
DP	200	10 Minute Spinning Reserve Market Settlement Credit	trade date	trade hour	trade interval	X	Zone ID	Delivery Point ID	P, F or C	AQOR	Price for Class R Reserve (PROR)																							Tax Rate (%)	Tax Amount ($)
DP	202	10 Minute Non-spinning Reserve Market Settlement Credit	trade date	trade hour	trade interval	X	Zone ID	Delivery Point ID	P, F or C	AQOR	Price for Class R Reserve (PROR)						Tie Point ID	Tie Point Zone																Tax Rate (%)	Tax Amount ($)
DP	204	30 Minute Operating Reserve Market Settlement Credit	trade date	trade hour	trade interval	X	Zone ID	Delivery Point ID	P, F or C	AQOR	Price for Class R Reserve (PROR)						Tie Point ID	Tie Point Zone																Tax Rate (%)	Tax Amount ($)
DP	600	Network Service Payment	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID		P, F or C	Sum of all NSD Quantities (from Charge Type 650)	PTS-N or transmitter specific (same as Charge 650)	Proportionality Factor																Sum of 650 charges							Tax Rate (%)	Tax Amount ($)

1	2	Name	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
record type	charge type		trading date	trading hour	trading interval	settlement amount	zone id	location id	settlement type	billable quantity	price	price 1	price 2	sum of AQEW and scheduled export quantity	location 1	location 2	intertie metering point ID	intertie metering point zone	total quantity to uplift/allocate	constant	bilateral tax rate for charge types 100 & 101	scheduled import quantity	scheduled export quantity	allocated quantity of energy withdrawn	allocated quantity of energy injected	total bilateral quantity sold	total bilateral quantity bought	amount 1	amount 2 (bilateral tax amount for charge types 100 & 101)	amount 3	per unit charge id	zone id 1 or Reason Code or Transmitter	zone id 2	tax rate	tax amount
DP	601	Line Connection Service Payment	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID		P, F or C	Sum of all LCD Quantities (from Charge Type 651)	PTS-L or transmitter specific (same as Charge 651)	Proportionality Factor																Sum of 651 charges						Tax Rate (%)	Tax Amount ($)
DP	602	Transformation Connection Service Payment	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID		P, F or C	Sum of all TCD Quantities (from Charge Type 652)	PTS-T or transmitter specific (same as Charge 652)	Proportionality Factor																Sum of 652 charges						Tax Rate (%)	Tax Amount ($)
DP	603	Export Transmission Service Payment	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID		P, F or C	Sum of all SQEW (from Charge 653) for each Zone ID / Tie Point ID	ETS or transmitter specific (same as Charge 653)						Tie Point ID																Tax Rate (%)	Tax Amount ($)
DP	650	Network Service Charge	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID	Transmission Delivery Point ID	P, F or C	NSD (in KW)	PTS-N ($/KW) or transmitter specific ($/KW)																Demand Date	Demand Hour			Short name of Transmitter		Tax Rate (%)	Tax Amount ($)
DP	651	Line Connection Service Charge	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID	Transmission Delivery Point ID	P, F or C	LCD (in KW)	PTS-L ($/KW) or transmitter specific ($/KW)																Demand Date	Demand Hour			Short name of Transmitter		Tax Rate (%)	Tax Amount ($)
DP	652	Transformation Connection Service Charge	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID	Transmission Delivery Point ID	P, F or C	TCD (in KW)	PTS-T ($/KW) or transmitter specific ($/KW)																Demand Date	Demand Hour			Short name of Transmitter		Tax Rate (%)	Tax Amount ($)
DP	653	Export Transmission Service Charge	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID	Delivery Point ID	P, F or C	Sum of all SQEW for each Zone ID / Tie Point ID for the month	ETS ($/MW/h) or transmitter specific ($/MW/h)						Tie Point ID	Tie Point Zone														Short name of Transmitter		Tax Rate (%)	Tax Amount ($)
DP	702	Debt Retirement Credit	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID		P, F or C	Sum of the billable quantities from code 752	Tariff rate																						Tax Rate (%)	Tax Amount ($)
DP	703	Rural Rate Assistance Settlement Credit	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID		P, F or C	Sum of the billable quantities from code 753	Tariff rate																						Tax Rate (%)	Tax Amount ($)
DP	704	OPA Administration Credit	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	X "ONZN"	Delivery Point ID	P, F or C	Sum of AQEW	Tariff rate																						Tax Rate (%)	Tax Amount ($)
DP	752	Debt Retirement Charge	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID	Delivery Point ID	P, F or C	Sum of AQEW for MP	Tariff rate or MP/DP specific ($/MW/h)																						Tax Rate (%)	Tax Amount ($)

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record type	charge type		trading date	trading hour	trading interval	settlement amount	zone id	location id	settlement type	billable quantity	price	price 1	price 2	sum of AQEW and scheduled export quantity	location 1	location 2	intertie metering point ID	intertie metering point zone	total quantity to uplift/allocate	constant	bilateral tax rate for charge types 100 & 101	scheduled import quantity	scheduled export quantity	allocated quantity of energy withdrawn	allocated quantity of energy injected	total bilateral quantity sold	total bilateral quantity bought	amount 1	amount 2 (bilateral tax amount for charge types 100 & 101)	amount 3	per unit charge id	zone id 1 or Reason Code or Transmitter	zone id 2	tax rate	tax amount
DP	753	Rural Rate Assistance Settlement Debit	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID	Delivery Point ID	P, F or C	Sum of AQEW for MP	Tariff rate or MP/DP specific ($/MW/h)																							Tax Rate (%)	Tax Amount ($)
DP	754	OPA Administration Charge	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	X "ONZN"	Delivery Point ID	P, F or C	Sum of AQEW	Tariff rate																							Tax Rate (%)	Tax Amount ($)
DP	1050	Self-induced Dispatchable Load CMSC Clawback.	Trade date	Trade hour	Trade interval	X	Zone ID	Delivery Point ID	P,F or C																			OP at minimum consumption		Business Rule for CMSC clawback				Tax Rate (%)	Tax Amount ($)
DP	1051	Ramp-down CMSC Clawback	Trade date	Trade hour	Trade interval	X	Zone ID "ONZN"	Delivery Point ID	P,F or C		Start Ramp-down Hour	Start Ramp-down interval								Start Ramp-down date														Tax Rate (%)	Tax Amount ($)
DP	1130	Day-Ahead Generation Intertie Offer Guarantee	trade date	trade hour	trade interval (always '0')	X	Zone ID	CSP ID	P, F or C								Tie Point ID	Tie Point Zone										-1 * OP (Minimum of PDR_DSQI and DSQI))		TD_{105}					Tax Rate (%)	Tax Amount ($)
DP	1137	Intertie Offer Guarantee Reversal	Trade date	trade hour	trade interval (always '0')	X	Zone ID	CSP ID	P, F or C								Tie Point ID	Tie Point Zone										130 Or 1130							Tax Rate (%)	Tax Amount ($)
DP	1139	Intertie Failure Charge Reversal	Trade date	trade hour	trade interval (always '0')	X	Zone ID	CSP ID	P, F or C								Tie Point ID	Tie Point Zone										135 Or 1135							Tax Rate (%)	Tax Amount ($)
DP	1131	Intertie Offer Guarantee Settlement Credit - energy	Trade date	trade hour	trade interval (always '0')	X	Zone ID	CSP ID	P, F or C								Tie Point ID	Tie Point Zone																	Tax Rate (%)	Tax Amount ($)
DP	1134	Day-Ahead linked Wheel Failure Charge	Trade date	Trade hour	Trade interval (Always '0')	X	Zone ID	CSP ID	P, F or C			PB_IM	PB_EX		SINK PT	SOURCE PT	Tie Point ID	Tie Point Zone	PD_PS	DA_LWSD								DA_PS DA_PS	RT_IFC_DALW	RT_EFC_DALW					Tax Rate (%)	Tax Amount ($)
DP	1135	Day-Ahead Import Failure Charge	trade date	trade hour	trade interval (always '0')	X	Zone ID	CSP ID	P, F or C								Tie Point ID	Tie Point Zone	OP(DA)			DA_ISD						OP(PD)	XPD_BE	XDA_BE					Tax Rate (%)	Tax Amount ($)

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record type	charge type		trading date	trading hour	trading interval	settlement amount	zone id	location id	settlement type	billable quantity	price	price 1	price 2	sum of AQEW and scheduled export quantity	location 1	location 2	intertie metering point ID	intertie metering point zone	total quantity to uplift/allocate	constant	bilateral tax rate for charge types 100 & 101	scheduled import quantity	scheduled export quantity	allocated quantity of energy withdrawn	allocated quantity of energy injected	total bilateral quantity sold	total bilateral quantity bought	amount 1	amount 2 (bilateral tax amount for charge types 100 & 101)	amount 3	per unit charge id	zone id 1 or Reason Code or Transmitter	zone id 2	tax rate	tax amount
DP	1136	Day-Ahead Export Failure Charge	Trade date	Trade hour	Trade interval (Always '0')	X	Zone ID	CSP ID	P, F or C								Tie Point ID	Tie Point Zone	(-1) * OP(DA)				DA_ISD					(-1) * OP(PD)	XPD_BL	XDA_BL				Tax Rate (%)	Tax Amount ($)
DP	1315	Demand Response Capacity Obligation – Availability Charge	The last trade date of the following month	Trade hour (always '0')	Trade interval (Always '0')	X	X "ONZN"		P, F or C						Obligation ID																	Trade date for which availability requirement for the day was not met.		Tax Rate (%)	Tax Amount ($)
DP	1401	Incremental Loss Settlement Credit	Trade date	Trade hour	trade interval (always '0')	X	X "ONZN"	Delivery Point ID	P, F or C			HOEP																MW	MVAR	1 for HV (High Voltage) and 2 for LV (Low Voltage)				Tax Rate (%)	Tax Amount ($)
	1402	Hourly Condense System Constraints Settlement Credit	Trade date	Trade hour	trade interval (always '0')	X	X "ONZN"		P, F or C			HOEP	Hourly Uplift Rate							230 units attracting uplift								Net condense requirement 115	Net condense requirement 230	Number of Additional 230 kV Units				Tax Rate (%)	Tax Amount ($)
DP	1403	Speed-no-load Settlement Credit	Trade date (last day of month)	Trade hour (always "0")	trade interval (always '0')	X	X "ONZN"	Delivery Point ID	P, F or C																									Tax Rate (%)	Tax Amount ($)
DP	1404	Condense Unit Start-up and OM&A Settlement Credit	Trade date	Trade hour	trade interval (always '0')	X	X "ONZN"	Delivery Point ID	P, F or C																									Tax Rate (%)	Tax Amount ($)
DP	1405	Hourly Condense Energy Costs Settlement Credit	Trade date	Trade hour	trade interval (always '0')	X	X "ONZN"	Delivery Point ID	P, F or C	Condense MW		HOEP	Hourly uplift rate																					Tax Rate (%)	Tax Amount ($)
DP	1406	Monthly Condense Energy Costs Settlement Credit	Trade date (last day of month)	Trade hour (always "0")	trade interval (always '0')	X	X "ONZN"	Delivery Point ID	P, F or C	Condense MW		Non-Hourly uplift rate																						Tax Rate (%)	Tax Amount ($)
DP	1407	Condense Transmission Tariff Reimbursement Settlement Credit	Trade date	Trade hour (always "0")	trade interval (always '0')	X	X "ONZN"	Delivery Point ID	P, F or C		Transmission Tariff Rate ($/KW).																	(Revised) Peak Date	(Revised) Peak Hour	(Revised) Peak Demand				Tax Rate (%)	Tax Amount ($)
DP	1408	Condense Availability Cost Settlement Credit	Trade date (last day of month)	Trade hour (always "0")	trade interval (always '0')	X	X "ONZN"		P, F or C																									Tax Rate (%)	Tax Amount ($)
DP	1409	Monthly Condense System Constraints Settlement Credit	Trade date (last day of month)	Trade hour (always "0")	trade interval (always '0')	X	X "ONZN"		P, F or C			Non-Hourly Uplift Rate																115 kV Units	230 kV Units Attracting Uplift					Tax Rate (%)	Tax Amount ($)

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record type	charge type		trading date	trading hour	trading interval	settlement amount	zone id	location id	settlement type	billable quantity	price	price 1	price 2	sum of AQEW and scheduled export quantity	location 1	location 2	intertie metering point ID	intertie metering point zone	total quantity to uplift/allocate	constant	bilateral tax rate for charge types 100 & 101	scheduled import quantity	scheduled export quantity	allocated quantity of energy withdrawn	allocated quantity of energy injected	total bilateral quantity sold	total bilateral quantity bought	amount 1	amount 2 (bilateral tax amount for charge types 100 & 101)	amount 3	per unit charge id	zone id 1 or Reason Code or Transmitter	zone id 2	tax rate	tax amount
DP	1451	Incremental Loss Offset Settlement Amount	Trade date	Trade hour	trade interval (always '0')	X	X "ONZN"	Delivery Point ID	P, F or C																									Tax Rate (%)	Tax Amount ($)
DP	1470	Ontario Electricity Support Program Balancing amount	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID	Delivery Point ID	P, F or C	Sum of AQEW,	Tariff rate																							Tax Rate (%)	Tax Amount ($)
DP	1500	Day-Ahead Production Cost Guarantee –Component 1 and Component 1 Clawback	trade date	trade hour	trade interval (always '0')	X	Zone ID	Delivery point ID	P, F or C											Component 1 clawback MLP								Total $ for Component 1	Total $ for Component 1 Clawback	Remaining MGBRT hours used to calc Component 1 clawback				Tax Rate (%)	Tax Amount ($)
DP	1501	Day-Ahead Production Cost Guarantee –Component 2	trade date	trade hour	trade interval (always '0')	X	Zone ID	Delivery point ID	P, F or C																			Total $ for XBE	Total $ for XDA_BE	Flag 1/0 for altered RT price curve				Tax Rate (%)	Tax Amount ($)
DP	1502	Day-Ahead Production Cost Guarantee –Component 3 and Component 3 Clawback	trade date	trade hour	trade interval (always '0')	X	Zone ID	Delivery point ID	P, F or C											Component 3 clawback MLP								Total $ for Component 3	Total $ for Component 3 Clawback	Remaining MGBRT hours used to calc Component 3 clawback				Tax Rate (%)	Tax Amount ($)
DP	1503	Day-Ahead Production Cost Guarantee –Component 4	trade date	trade hour	trade interval (always '0')	X	Zone ID	Delivery point ID	P, F or C	30R-SQROR				10NS-SQROR						10S-SQROR								OP(30R)	OP(10NS)	OP(10S)				Tax Rate (%)	Tax Amount ($)
DP	1504	Day-Ahead Production Cost Guarantee –Component 5	trade date	Starting hour of EDAC start event	trade interval (always '0')	X	Zone ID	Delivery point ID	P, F or C											#of intervals between 7 & 18								Start-up payment		Last hour of EDAC start event				Tax Rate (%)	Tax Amount ($)
DP	1505	Day-Ahead Production Cost Guarantee Reversal	trade date	Starting hour of EDAC start event	trade interval (always '0')	X	Zone ID	Delivery point ID	P, F or C																					Last hour of EDAC start event				Tax Rate (%)	Tax Amount ($)
DP	1510	Day-Ahead Generator withdrawal Charge	trade date	trade hour	trade interval (always '0')	X	Zone ID	CSP ID	P, F or C																			1 or 0						Tax Rate (%)	Tax Amount ($)
DP	9990	IESO Energy Market Administration Charge	Last Trading Date of the Month	trade hour (always '0')	trade interval (always '0')	X	Zone ID	Delivery Point ID	P, F or C	Sum of AQEW, DQSW	Tariff rate						Tie Point ID	Tie Point Zone				Zero (0)	Sum of SQEW for the MP	Sum of AQEW for the MP	Zero (0)									Tax Rate (%)	Tax Amount ($)

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A.1.2 Uplift Column Cross Reference

1	2	Name	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
record type	charge type		trading date	trading hour	trading interval	settlement amount	zone id	location id	settlement type	billable quantity	price	price 1	price 2	sum of AQEW and scheduled export quantity	location 1	location 2	intertie metering point ID	intertie metering point zone	total quantity to uplift/allocate	constant	bilateral tax rate for charge types 100 & 101	scheduled import quantity	scheduled export quantity	allocated quantity of energy withdrawn	allocated quantity of energy injected	total bilateral quantity sold	total bilateral quantity bought	amount 1	amount 2 (bilateral tax amount for charge types 100 & 101)	amount 3	per unit charge id	zone id 1 or Reason Code or Transmitter	zone id 2	tax rate	tax amount
DP	Varies – see section 2.2 table 2-5 for specific listing	Varies– see section 2.2 table 2-5 for specific listing	X	X	X (always '0')	X	Zone ID (Optional)		P, F or C					Sum of AQEW, SQEW for All MPs					Total $ to be Uplifted	RQ (Optional)		Zero (0)	Sum of SQEW for the MP	Sum of AQEW for the MP	Zero (0)									Comment related to adjustment period and type or Null	Tax Rate (%)	Tax Amount ($)

A.2 Manually Generated Charges

A.2.1 Manual Line Item Column Cross Reference

1	2	Name	3	4	5	6	7	8	9	10	11	12	13	14
record type	charge type		trading date	trading hour	trading interval	adjustment amount	zone id	location id	settlement type	billable quantity	price	tax rate	tax amount	adjustment comment
MP	Varies–see section 2.2 table 2-5 for specific listing	Varies– see section 2.2 table 2-5 for specific listing	X	X	X	X	Optional Field	Optional Field	P, F or C	Optional Field	Optional Field	Tax Rate (%)	Tax Amount ($)	X

A.2.2 Per Unit Charge Column Cross Reference

1	2	Name	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
record type	charge type		trading date	trading hour	trading interval	settlement amount	zone id	location id	settlement type	billable quantity	price	price 1	price 2	sum of AQEW and scheduled export quantity	location 1	location 2	intertie metering point ID	intertie metering point zone	total quantity to uplift/allocate	constant	bilateral tax rate for charge types 100 & 101	scheduled import quantity	scheduled export quantity	allocated quantity of energy withdrawn	allocated quantity of energy injected	total bilateral quantity sold	total bilateral quantity bought	amount 1	amount 2 (bilateral tax amount for charge types 100 & 101)	amount 3	per unit charge id	zone id 1 or Reason Code or Transmitter	zone id 2	tax rate	tax amount
DP	Varies– see section 2.2 table 2-5 for specific listing	Varies– see section 2.2 table 2-5 for specific listing	X	X	X (always '0')	X	Zone ID (Optional)		P, F or C					Sum of AQEW, SQEW for All MPs				Tie Point Zone ID (Optional)	Total $ for Disbursement	RQ (Optional)		Zero (0)	Sum of SQEW for the MP	Sum of AQEW for the MP	Zero (0)						Unique Transaction ID		Comment related to adjustment period and type or Null	Tax Rate (%)	Tax Amount ($)

References

Document Name	Document ID
Independent Electricity System Operator, “Market Manual 5.5 Physical Markets Settlement Statements.” [market manual]	MDP_PRO_0033
Independent Electricity System Operator, “IESO Charge Types and Equations.” [Technical Interfaces document]	IMP_LST_0001
Independent Electricity System Operator, “Market Rules”	MDP_RUL_0002
Independent Electricity System Operator “Market Manual 1.1 Participant Authorization, Maintenance and Exit” [market manual]	MDP_PRO_0014
Independent Electricity System Operator “Market Manual 5.1 – Settlement Schedule and Payment Calendar” [market manual]	MDP_PRO_0031
Legislative Assembly of Ontario, Bill 210 - "Electricity Pricing, Conservation and Supply Act, 2002." S.O. 2002, Chapter 23 **Formal Title:** "An Act to amend various Acts in respect of pricing, conservation and supply of electricity an in respect of other matters related to electricity." **First Reading:** November 25, 2002 **Second Reading:** December 5, 2002 **Third Reading:** December 9, 2002 **Royal Assent:** December 9, 2002	BILL 210
Regulations made pursuant to BILL 210 "*Electricity Pricing, Conservation and Supply Act, 2002*." ***Regulation* 339/02** (Under the Ontario Energy Board Act, 1998) "Electricity Pricing" - amended by *regulation* 433/02 ***Regulation* 341/02** (Under the Ontario Energy Board Act, 1998) "Compensation and Set-Offs Under Part V of the Act" - amended by *regulation* 434/02 ***Regulation* 342/02** (Under the Ontario Energy Board Act, 1998) "Payments to the IMO" - revoked by *regulation* 432/02 ***Regulation* 432/02** (Under the Ontario Energy Board Act, 1998) "Revoking Ontario Regulation 342/02 (Payments to the IMO)" ***Regulation* 433/02** (Under the Ontario Energy Board Act, 1998) "Amending Ontario Regulation 339/02 (Electricity Pricing)" ***Regulation* 434/02** (Under the Ontario Energy Board Act, 1998) "Amending Ontario Regulation 341/02 (Compensation and Set-Offs Under Part V of the Act)"	339/02 (amended by 433/02) 341/02 (amended by 434/02) 342/02 (revoked by 432/02) 433/02 434/02 435/02 436/02

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Document Name	Document ID
***Regulation* 435/02** (Under the Ontario Energy Board Act, 1998) "Payments re Section 79.4 of the Act" ***Regulation* 436/02** (Under the Ontario Energy Board Act, 1998) "Payments re Various Electricity-Related Charges" ***Regulation* 330/09** (Under the *Ontario Energy Board Act, 1998*) "Cost recovery re section 79.1 of the Act"	
Legislative Assembly of Ontario, Bill 100 - "*Electricity Restructuring Act, 2004*" • First Reading: June 15, 2004 • Second Reading: November 22, 2004 • Third Reading: December 9, 2004 • Royal Assent: December 9, 2004 Subject to regulations made pursuant to the "Electricity Restructuring Act, 2004" once proclaimed into force: Ontario regulation 427/04 “Payments to the Financial Corp. re Section 78.2 of the Act” Ontario regulation 428/04 “Payments re Section 79.4 of the Act” Ontario regulation 429/04 “Adjustments Under Section 25.33 of the Act” amended by Ontario Regulation 398/10 Ontario regulation 430/04 “Payments re Section 25.33 of the Act” Ontario regulation 431/04 “Payments re Section 25.34 of the Act” Section 78.3 of the (Ontario Energy Board) Act Section 78.4 of the (Ontario Energy Board) Act	BILL 100 See also, Ontario e-laws website for official Ontario Government Regulation ID numbers at: http://www.e-laws.gov.on.ca/
Ontario regulation 53/05 made under “OEB Act, 1998” re “Payments under Section 78.1 of the Act” Ontario regulation 98/05 made under *OEB Act, 1998* re “Payments re Various Electricity-Related Charges” Ontario Regulation 66/10 made under *OEB Act, 1998* re “Assessments for Ministry of Energy and Infrastructure Conservation and Renewable Energy Program Costs”	BILL 100 See also, Ontario e-laws website for official Ontario Government Regulation ID numbers at: http://www.e-laws.gov.on.ca/

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