

**SPECIFICATION**



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# **File Format Specification for Capacity Auction Data Files**

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**Issue 3.0**

*This file format specification deals with the data file  
Report that a CA Customer may receive.*

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|-------------------------|---|
| <b>Document ID</b>      | SPEC-142  |
| <b>Document Name</b>    | File Format Specification for Capacity Auction Data Files   |
| <b>Issue</b>            | Issue 3.0   |
| <b>Reason for Issue</b> | Updated to support market participant readiness in preparation for the RSS project implementation |
| <b>Effective Date</b>   | May 1, 2023   |

## Document Change History

| Issue | Reason for Issue   | Date             |
|-------|--|------------------|
| 1.0   | First release issued in advance of Baseline 36.1   | October 14, 2016 |
| 2.0   | Document and report file name change, and file content changes for Capacity Auction. Note: Changes will be effective when the June 30, 2021 Preliminary Statement is published on July 15, 2021. | June 2, 2021     |
| 3.0   | Updated to support market participant readiness in preparation for the RSS project implementation.   | May 1, 2023      |

## Related Documents

| Document ID | Document Title |
|-------------|----------------|
| N/A         |                |
|             |                |

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| Reference (Section and Paragraph) | Description of Change  |
|-----------------------------------|--|
|                                   | Note: Changes will be effective when the June 30, 2021 Preliminary Statement is published on July 15, 2021.        |
| Entire document                   | Changed “Demand Response” to “Capacity Auction” and “DR” to “CA”   |
| Section 2.                        | Updated file name format   |
| Section 2.2                       | Updated to show that bid data is only published for days in which an availability charge (CT 1315) was applied     |
| Section 2.2, Table 2              | Updated pre-dispatch (PD) bid content  |
| Entire document                   | Updated to support market participant readiness in preparation for the RSS project implementation in November 2022 |



# 1. Introduction

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## 1.1 Purpose

The Capacity Auction (CA) is an initiative designed to deliver capacity to the IESO Controlled Grid. Settlement of the availability and delivery of capacity procured through the auction is called capacity obligation settlement. Data files that are currently produced by the settlement process for the real-time market do not include all the data participants need to reconcile their CA settlement. Therefore, this CA data files report is required and shall contain data to supplement the existing Real-time market data files.

The CA data file will be provided to market participants in the event where a CA charge is settled on a statement for a trading day.

This document defines the specification of the Capacity Auction Data File Report.

## 1.2 Scope

This document specifically covers the file structure of the “Capacity Auction Data File Report” which contains data that can be used by market participants to reconcile their CA settlement.

## 1.3 Who Should Use This Document

This document is intended for Capacity Auction customers who may be interested in the format and content of the supplementary data file to support capacity auction charges.

## 1.4 Conventions

The standard conventions followed for this document are that:

- The word ‘shall’ or ‘must’ denotes a mandatory requirement
- All times are in Eastern Standard Time (EST)

- End of Section -

## 2. Capacity Auction Data File Report

The IESO issues data files along with settlement statements to support the calculations that are being settled with the market participant. In the event a *capacity auction* (CA) settlement is being settled on market participants statement, a supporting CA data file will be issued to the participant. The CA data file only contains data that applies to a primary trading date. Each data file contains the best available listing of schedule data, bid data and measurement data for the 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] ['\_'] [report name {'CapAuction-DT'}] ['\_'] [primary settlement trade date {YYYYMMDD}] ['\_'] [version number identifying whether this report file was regenerated 'v1'] ['.txt']

For example: "CNF-XYZ\_CapAuction-DT\_20210630\_v1.txt"

The file contains a confidential report,

The data contained is for XYZ – XYZ Inc.,

It is related to CA Statement Data,

It relates to the month of June 30 2021.

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

Each data file is composed of four sections. The first of these sections is a header record providing information such as statement type, and primary trade date. Following this section is a section containing the bid data. The third section contains all *dispatch instructions* and *market schedules*. The fourth section contains all *energy* measurements data reported by the Meter Data Management System (MDM) to the Commercial Reconciliation System (CRS).

### 2.1 Data File Header Record

Table 1 Data File Header Record Description

| Field                 | Type    | Max Field Length | Domain  | Description  |
|-----------------------|---------|------------------|---------|--|
| Record Type           | Varchar | 1                | 'H'     | Indicates the type of record as Header Record.                       |
| Market Participant ID | Number  | 15               | NNNNNN  | The capacity auction metered market participant's unique identifier. |
| Settlement Month      | String  | N/A              | YYYY-MM | The month and year the settlement is for.                            |

| Field                 | Type   | Max Field Length | Domain   | Description   |
|-----------------------|--------|------------------|--|---|
| Settlement Trade Date | String | N/A              | YYYY-MM-DD   | The trade date used for the settlement.   |
| Settlement Type       |        | 1                | 'P', 'F', 'R1', 'R2', 'R3', 'R4', 'R5', 'R6', 'RF' | Indicates the type of settlement set: preliminary, final, one of the resettlement statements or a resettlement final statement. |

## 2.2 Energy Bid Record Description

These records provide the market and dispatch energy bid data used in the corresponding statement for the market participant. This bid data is only for those days within the settlement month where an availability charge (CT 1315) was applied.

**Table 2 Data File Energy Bid Record Description**

| Field ID | Short Description | Type    | Max Field Length | Domain        | Description   |
|----------|-------------------|---------|------------------|---------------|---|
| 1        | Record Type       | Varchar | 1                | 'V'           | Indicates the type of record as an Energy Bid Record.   |
| 2        | Location ID       | Number  | 12               | NNNNN<br>N    | A delivery point ID assigned by the IESO for <i>physical market delivery point</i> ID, MSP (Market Scheduling Point/tie-point) ID or CSP (Constrained Scheduling Point/ <i>Boundary Entity</i> ) ID as applicable.<br><br>The <i>delivery point</i> ID is a 6-character identifier. |
| 3        | Trade Date        | String  | N/A              | YYYY-MM-DD    | The trade date for which the bid is effective.  |
| 4        | Trade Hour        | Number  | 2                | 1 - 24        | The trade hour for which the bid is effective.  |
| 5        | Number of pairs   | Varchar | 2                | 0-20<br>(0-5) | The number of price-quantity pairs contained within the energy bid.   |
| 6        | Quantity 1        | Number  | 11,3             |               | The quantity of the 1 <sup>st</sup> price-quantity pair.  |
| 7        | Price 1           | Number  | 10,5             |               | The price of the 1 <sup>st</sup> P- price-quantity pair.  |
| 8        | Quantity 2        | Number  | 11,3             |               | The quantity of the 2 <sup>nd</sup> price-quantity pair.  |

| Field ID | Short Description | Type   | Max Field Length | Domain | Description   |
|----------|-------------------|--------|------------------|--------|---|
| 9        | Price 2           | Number | 10,5             |        | The price of the 2 <sup>nd</sup> price-quantity pair.     |
| 10       | Quantity 3        | Number | 11,3             |        | The quantity of the 3 <sup>rd</sup> price-quantity pair.  |
| 11       | Price 3           | Number | 10,5             |        | The price of the 3 <sup>rd</sup> price-quantity pair.     |
| 12       | Quantity 4        | Number | 11,3             |        | The quantity of the 4 <sup>th</sup> price-quantity pair.  |
| 13       | Price 4           | Number | 10,5             |        | The price of the 4 <sup>th</sup> price-quantity pair.     |
| 14       | Quantity 5        | Number | 11,3             |        | The quantity of the 5 <sup>th</sup> price-quantity pair.  |
| 15       | Price 5           | Number | 10,5             |        | The price of the 5 <sup>th</sup> price-quantity pair.     |
| 16       | Quantity 6        | Number | 11,3             |        | The quantity of the 6 <sup>th</sup> price-quantity pair.  |
| 17       | Price 6           | Number | 10,5             |        | The price of the 6 <sup>th</sup> price-quantity pair.     |
| 18       | Quantity 7        | Number | 11,3             |        | The quantity of the 7 <sup>th</sup> price-quantity pair.  |
| 19       | Price 7           | Number | 10,5             |        | The price of the 7 <sup>th</sup> price-quantity pair.     |
| 20       | Quantity 8        | Number | 11,3             |        | The quantity of the 8 <sup>th</sup> price-quantity pair.  |
| 21       | Price 8           | Number | 10,5             |        | The price of the 8 <sup>th</sup> price-quantity pair.     |
| 22       | Quantity 9        | Number | 11,3             |        | The quantity of the 9 <sup>th</sup> price-quantity pair.  |
| 23       | Price 9           | Number | 10,5             |        | The price of the 9 <sup>th</sup> price-quantity pair.     |
| 24       | Quantity 10       | Number | 11,3             |        | The quantity of the 10 <sup>th</sup> price-quantity pair. |
| 25       | Price 10          | Number | 10,5             |        | The price of the 10 <sup>th</sup> price-quantity pair.    |
| 26       | Quantity 11       | Number | 11,3             |        | The quantity of the 11 <sup>th</sup> price-quantity pair. |
| 27       | Price 11          | Number | 10,5             |        | The price of the 11 <sup>th</sup> price-quantity pair.    |
| 28       | Quantity 12       | Number | 11,3             |        | The quantity of the 12 <sup>th</sup> price-quantity pair. |
| 29       | Price 12          | Number | 10,5             |        | The price of the 12 <sup>th</sup> price-quantity pair.    |
| 30       | Quantity 13       | Number | 11,3             |        | The quantity of the 13 <sup>th</sup> price-quantity pair. |
| 31       | Price 13          | Number | 10,5             |        | The price of the 13 <sup>th</sup> price-quantity pair.    |

| Field ID | Short Description | Type   | Max Field Length | Domain | Description  |
|----------|-------------------|--------|------------------|--------|--|
| 32       | Quantity 14       | Number | 11,3             |        | The quantity of the 14 <sup>th</sup> price-quantity pair.  |
| 33       | Price 14          | Number | 10,5             |        | The price of the 14 <sup>th</sup> price-quantity pair.   |
| 34       | Quantity 15       | Number | 11,3             |        | The quantity of the 15 <sup>th</sup> price-quantity pair.  |
| 35       | Price 15          | Number | 10,5             |        | The price of the 15 <sup>th</sup> price-quantity pair.   |
| 36       | Quantity 16       | Number | 11,3             |        | The quantity of the 16 <sup>th</sup> price-quantity pair.  |
| 37       | Price 16          | Number | 10,5             |        | The price of the 16 <sup>th</sup> price-quantity pair.   |
| 38       | Quantity 17       | Number | 11,3             |        | The quantity of the 17 <sup>th</sup> price-quantity pair.  |
| 39       | Price 17          | Number | 10,5             |        | The price of the 17 <sup>th</sup> price-quantity pair.   |
| 40       | Quantity 18       | Number | 11,3             |        | The quantity of the 18 <sup>th</sup> price-quantity pair.  |
| 41       | Price 18          | Number | 10,5             |        | The price of the 18 <sup>th</sup> price-quantity pair.   |
| 42       | Quantity 19       | Number | 11,3             |        | The quantity of the 19 <sup>th</sup> price-quantity pair.  |
| 43       | Price 19          | Number | 10,5             |        | The price of the 19 <sup>th</sup> price-quantity pair.   |
| 44       | Quantity 20       | Number | 11,3             |        | The quantity of the 20 <sup>th</sup> price-quantity pair.  |
| 45       | Price 20          | Number | 10,5             |        | The price of the 20 <sup>th</sup> price-quantity pair.   |
| 46       | Bid Type          | String | 4                | DA     | Final Day Ahead Run  |
| 46       | Bid Type          | String | 4                | PDnn   | Bids corresponding to all pre-dispatch runs available, where nn is the number of the pre-dispatch run prior to real time. For example, PD01 is the final pre-dispatch run, PD02 is the second final pre-dispatch run, etc. |
| 46       | Bid Type          | String | 4                | RT     | Real Time Run  |

### 2.3 Schedule Data Record Description

These records provide the dispatch schedules data used in the corresponding statement for the market participant. This includes one month worth of data for all schedules with the primary trading date of the corresponding statement as the date.

**Table 3 Data File Schedule Record Description**

| Field ID | Short Description  | Type    | Max Field Length | Domain     | Description   |
|----------|--------------------|---------|------------------|------------|---|
| 1        | Record Type        | Varchar | 1                | 'S'        | Indicates the type of record as a Schedule Record.  |
| 2        | Location ID        | Number  | 12               | NNNN<br>NN | A delivery point ID assigned by the IESO for <i>physical market delivery point</i> ID, MSP (Market Scheduling Point/tie-point) ID or CSP (Constrained Scheduling Point/ <i>Boundary Entity</i> ) ID as applicable.<br><br>The <i>delivery point</i> ID is a 6-character identifier. |
| 3        | Trade Date         | Date    | N/A              | YYYY-MM-DD | The trade date for which the schedule is effective.   |
| 4        | Trade Hour         | Number  | 2                | 1-24       | The trade hour for which the schedule is effective.   |
| 5        | Trading Interval   | Number  | 2                | 1-12       | The trading interval for which the schedule is effective.   |
| 6        | Scheduled Quantity | Number  | 11,3             |            | The quantity in MW that is scheduled.   |

## 2.4 Measurement Data Record Description

These records provide the measurements data used in the corresponding statement for the market participant. This includes three months' worth of data for all virtual resource measurements with the primary trading date of the corresponding statement as the date.

**Table 4 Data File Measurement Record Description**

| Field ID | Short Description | Type    | Max Field Length | Domain     | Description   |
|----------|-------------------|---------|------------------|------------|---|
| 1        | Record Type       | Varchar | 1                | 'M'        | Indicates the type of record as a Measurement Record.   |
| 2        | Location ID       | Number  | 12               | NNNN<br>NN | A delivery point ID assigned by the IESO for <i>physical market delivery point</i> ID, MSP (Market Scheduling Point/tie-point) ID or CSP (Constrained Scheduling Point/ <i>Boundary Entity</i> ) ID as applicable.<br><br>The <i>delivery point</i> ID is a 6-character identifier. |

| Field ID | Short Description              | Type    | Max Field Length | Domain     | Description  |
|----------|--------------------------------|---------|------------------|------------|--|
| 3        | Trading Date                   | Date    | N/A              | YYYY-MM-DD | The specific trading date of the interval measurement.   |
| 4        | Trading Hour                   | Number  | 2                | 1-24       | The specific trading hour of the interval measurement.   |
| 5        | Trading Interval               | Number  | 2                | 1-12       | The specific 5-minute interval in the trading hour.  |
| 6        | Measurement Quantity           | Number  | 11.3             |            | The 5-minute interval measurement quantity in Megawatts.   |
| 7        | UOM                            | Varchar | 1                | 'W'        | The unit of measurement for the 5-minute interval measurement.   |
| 8        | Injection Withdrawal Indicator | Varchar | 1                | 'I'        | Indicates that the 5-minute interval measurement represents a net injection in the 5-minute interval.  |
| 8        | Injection Withdrawal Indicator | Varchar | 1                | 'W'        | Indicates that the 5-minute interval measurement represents a net withdrawal in the 5-minute interval. |

- End of Section -



# References

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| Document Name | Doc ID |
|---------------|--------|
| N/A           | N/A    |

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