



# **The Single Electricity Market (SEM)**

## **Agreed Procedure 4: Transaction Submission and Validation**

**Version 8.0**

**19 November 2010**

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## **SEM Agreed Procedure**

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| <b>Title</b>   | Agreed Procedure 4: Transaction Submission and Validation |
| <b>Version</b> | 8.0   |
| <b>Date</b>    | 19 November 2010  |

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## DOCUMENT HISTORY

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| V2.0    | 03/11/06   | SEM Implementation Team            | Issued to the Regulatory Authorities   |
| V4.0    | 23/11/06   | SEM Implementation Team            | Updates for consistency with Code version 1.3  |
| V4.1    | 18/06/07   | Regulatory Authorities             | Draft Go-Active version  |
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|         | 03/03/2009 | SEMO                               | Mod_46_08 Validation of Technical Data: Clarification of Interim Validation Process  |
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| V6.0    | 30/10/2009 | SEMO                               | Baseline Documentation at V6.0   |
| V6.1    | 21/01/2010 | SONI                               | Mod_41_09 Aggregated Generator Unit Capacity Change  |
| V7.0    | 28/05/2010 | SEMO                               | Baseline Documentation at V7.0   |
| V8.0    | 19/11/2010 | SEMO                               | Baseline Documentation at V8.0   |

## RELATED DOCUMENTS

| Document Title                      | Version | Date       | By   |
|-------------------------------------|---------|------------|------|
| Trading and Settlement Code         | V8.0    | 19/11/2010 | SEMO |
| Agreed Procedure 1 "Participant and |         |            |      |

|   |  |  |  |
|---|--|--|--|
| Unit Registration and Deregistration”   |  |  |  |
| Agreed Procedure 3 “Communication Channel Qualification.”                     |  |  |  |
| Agreed Procedure 5 “Data Storage and IT Security”                             |  |  |  |
| Agreed Procedure 7 “Emergency Communications”                                 |  |  |  |
| Agreed Procedure 11 “Market System Operation, Testing, Upgrading and Support” |  |  |  |

# 1. INTRODUCTION

## 1.1 BACKGROUND AND PURPOSE

This Agreed Procedure sets out the process by which Data Transactions are submitted both for by Participants (excluding System Operators and Interconnector Administrators) and the process for the Market Operator (MO) for the submission and issue of Data Transactions by the Market Operator (MO).

It also describes the defaulting rules for the submission and application of Offer Data as referred throughout the Trading and Settlement Code.

In order to achieve this, the following topics are addressed will be dealt with:

| Section(s)  | Description  |
|-------------|--|
| 2.1         | Communication Channels supporting the submission of Data Transactions.                 |
| 2.2         | Timing and Sequencing of Data Transactions.  |
| 2.3 and 3.1 | Rules and processes supporting the submission of Data Transactions.                    |
| 2.4         | Approval of Data Transactions  |
| 2.5         | Data Submission: Market Operator response messages.                                    |
| 2.6         | Default Data rules.  |
| 3.2         | Process for Authorisation of Data Transactions containing a change to Banking Details. |

Communication Channels supporting the Data Transactions

Rules supporting the Data Transactions

Submission and issue processes

## 1.2 SCOPE OF AGREED PROCEDURE

This Agreed Procedure is a description of procedural steps to be followed by the Market Operator and Participants. It forms an annexe to, and is governed by the Code. This document is a statement of process and procedure. Parties' rights and obligations are set out in the Code. The scope of this Agreed Procedure is set out in Appendix D L of the Code.

This Agreed Procedure is not intended as a technical user guide.

The following topics are out of the scope of this Agreed Procedure:

- Authentication, non-repudiation of any data surrounding the communication of any Data Transaction over a Type 2 Channel or Type 3 Channel (refer to Agreed Procedure 5 "Data Storage and IT Security" for further information).
- Interconnector Administrator Data Transactions;
- System Operator Data Transactions; and
- Type 1 Channel communications.

## 1.3 DEFINITIONS

Save as expressly defined, words and expressions defined in the Code shall have the same meanings when used in this Agreed Procedure.

References to particular sections relate internally to this Agreed Procedure unless otherwise specified specifically noted.

#### **1.4 COMPLIANCE WITH AGREED PROCEDURE**

Compliance with this Agreed Procedure is required under the terms set out in the Code.

## 2. DESCRIPTIVE OVERVIEW

The Data Transactions within the scope of this Agreed Procedure are those submitted by the Participants (excluding Interconnector Administrators and System Operators) to the Market Operator and the messages that the Market Operator (MO) submits in response.

### 2.1 COMMUNICATION CHANNELS

The Market Operator shall will allow communication with the Participants via three distinct Communication Channel types:

Type 1 Channel;

Type 2 Channel;

Type 3 Channel

Each Participant must designate and qualify for at least one of either Type 2 Channel or Type 3 Channel as described in the Agreed Procedure 3 "Communication Channel Qualification."

The Data Transactions in scope of this Agreed Procedure are those that are sent via Type 2 Channel or Type 3 Channel as permitted under the Code.

Type 1 Channel communications are not covered in this Agreed Procedure.

#### 2.1.1 Type 1 Channel

Manual communication consists of paper-based communications that are mailed, hand-delivered, or faxed to or by the Market Operator.

#### 2.1.2 Type 2 Channel

Assisted (human to computer) communication consists of an interface provided by the Market Operator for an end-user to interact with. The current implementation consists of a set of web forms that the end-user can interact with, along with a web form to facilitate interaction via XML request/response files for certain Data Transactions.

For Type 2 Channel communication, Web Forms may be used to:

- upload previously prepared Data Transactions (excluding report requests); or
- enter and submit data directly via specific Web Forms.

#### 2.1.3 Type 3 Channel

Automated (computer to computer) communication is currently implemented via Web Services.

Each Participant must designate and qualify for at least one of either Type 2 Channel or Type 3 Channel as described in the Agreed Procedure 3 "Communication Channel Qualification." All Participants shall be qualified to communicate via the Type 1 Channel.

### 2.2 TIMING/SEQUENCING OF DATA TRANSACTION SUBMISSIONS

Data Transactions received by the Market Operator's Isolated Market System are generally processed on a first come first served basis. However, to facilitate throughput of Data Transactions, various levels of parallelism and pooling are implemented, which could result in certain scenarios in which this sequencing cannot be guaranteed. Such instances include (without limitation):



- The Isolated Market System operates across multiple Market Operator sites, each with a separate Web Interface system. As each Web Interface operates independently, sequencing of Data Transactions submitted concurrently will depend on the processing of each Data Transaction by the respective Web Interface.
  - As Data Transactions covering the same data may be submitted via multiple communication channels at the same time, sequencing will depend on the processing of such Data Transactions by the Isolated Market System.
- As a result of these scenarios where sequencing cannot be guaranteed, any specific Participant requirement around sequencing will need to be enforced by appropriate business and/or system processes implemented by the Participant. For example:
- A Market Participant wishing to use only the Type 3 Channel for a single user and login identifier could configure their systems such that each Data Transaction is submitted in sequence, with a Market Operator response required prior to submitting a subsequent Data Transaction.

## 2.3 SUBMISSION OF PARTICIPANT DATA TRANSACTIONS

### 2.4.42.3.1 Key Participant Activities

The Each Participant may perform any of the following activities:

- Data submission;
- Data query of System Data and;
- Report query.

### 2.3.2 Data Transaction Classes and Elements

Table 1 specifies each Class of Data Transaction covered under this Agreed Procedure and each constituent Element. Where a Participant submits Data Transactions via the Type 3 Channel, one or many Elements and/or one or many occurrences of these Elements may be included in the same Data Transaction, as per the sequence defined in Table 1. No Data Transaction may contain Elements from different Data Transaction classes. Additional restrictions are as follows:

1. Only one Settlement Reallocation Data Element may be included within any individual Data Transaction.
2. In the case of Settlement Report Data Transactions, a Participant shall be able to request a report (Settlement Statements, Invoices, etc.) or request a list of all available reports (a directory listing).

**Table 1: Class and Element Mapping with Participant Activities**

| Class | Element                        | Element sequence within Class * | Relevant for Data Submission? | Relevant for query of System Data? | Relevant for Report Query? |
|-------|--------------------------------|---------------------------------|-------------------------------|------------------------------------|----------------------------|
| MPR   | Application Data               | 1                               | Yes                           | Yes                                |                            |
| MPR   | Users Data                     | 2                               | Yes                           | Yes                                |                            |
| MPR   | Contacts Data                  | 3                               | Yes                           | Yes                                |                            |
| MPR   | Bank Data                      | 4                               | Yes                           | Yes                                |                            |
| MPR   | Generator Parameters           | 5                               | Yes                           | Yes                                |                            |
| MPR   | Load Parameters                | 6                               | Yes                           | Yes                                |                            |
|       |                                |                                 |                               |                                    |                            |
| MI    | Generator Offer Data           | 1                               | Yes                           | Yes                                |                            |
| MI    | Generator Technical Offer Data | 2                               | Yes                           | Yes                                |                            |

| Class | Element                                | Element sequence within Class * | Relevant for Data Submission? | Relevant for query of System Data? | Relevant for Report Query? |
|-------|--|---------------------------------|-------------------------------|------------------------------------|----------------------------|
| MI    | Demand Offer Data                      | 3                               | Yes                           | Yes                                |                            |
| MI    | Demand Technical Offer Data            | 4                               | Yes                           | Yes                                |                            |
| MI    | Validation Technical Offer Data Choice | 5                               | Yes                           | Yes                                |                            |
| MI    | Settlement Reallocation Data           | 6                               | Yes                           | Yes                                |                            |
| MI    | Interconnector Offer Data              | 7                               | Yes                           | Yes                                |                            |
| MI    | MI Reports                             |                                 |                               |                                    | Yes                        |
| STL   | Settlement Statements                  |                                 |                               |                                    | Yes                        |
| STL   | Participant Information Report         |                                 |                               |                                    | Yes                        |
| STL   | Settlement Reallocation                |                                 |                               |                                    | Yes                        |
| STL   | Invoicing Data                         |                                 |                               |                                    | Yes                        |

\* Where submitted within a single message

The classes of Data Transaction covered under this Agreed Procedure and their constituent elements are:

| Class | Element                              | Available Transactions        |
|-------|--------------------------------------|-------------------------------|
| MPR   | Application Data                     | Data submission or data query |
|       | Contacts Data                        | Data submission or data query |
|       | Users Data                           | Data submission or data query |
|       | Bank Data                            | Data submission or data query |
|       | Unit (Resource) Data                 | Data submission or data query |
| MI    | Generator Offer Data                 | Data submission or data query |
|       | Load Bid Data (for Demand Side Unit) | Data submission or data query |
|       | Interconnector Offer Data            | Data submission or data query |
|       | Settlement Reallocation Data         | Data submission or data query |
|       | MI Reports                           | Report query                  |
| STL   | Settlement Statements                | Report query                  |
|       | Participant Information Report       | Report query                  |
|       | Settlement Reallocation              | Report query                  |
|       | Invoicing Data                       | Report query                  |

Further information on the data that makes up each of these Elements can be found in Appendix 2 of in this Agreed Procedure, ~~Business Data Contained In Each Element~~.

Subject to the restrictions below, where the Participant is submitting Data Transactions via a Type 3 Channel it is possible to include multiple elements in the same Data Transaction.

However each of these Data Transactions can only contain elements of the same Data Transaction class. Additional restrictions are outlined below:

A Data Transaction (or message) can contain one or many elements and/or one or many occurrence of these elements provided that:

Elements all belong to the same class, e.g. Application Data is not included with Generator Offer Data in the same Data Transaction.

Within each individual message, elements must occur in a defined order:

MPR Elements when submitted together, should be in the following sequence:

Application Data

Contacts Data

Users Data

Bank Data

Unit (Resource) Data

MI Elements submitted together, should be in the following sequence:

Generator Offer Data

Load Bid Data (for Demand Side Units)

Interconnector Offer Data

Settlement Reallocation Data

In addition:

An Accepted Settlement Reallocation Transaction will have effect in addition to any other Settlement Reallocation Transaction that has been Accepted in respect of the same Participants and Trading Period

Only one Settlement Reallocation Data element is allowed per Data Transaction. For the avoidance of doubt, and subject to the provisions of the Code relating to Settlement Reallocations Agreements, a Participant is capable of submitting more than one Settlement Reallocation per Trading Period. A Participant is also permitted to submit Settlement Reallocations between their own Supplier Units and Generator Units.

In the case of Settlement Report Data Transactions it is possible to request a report (Settlement Statements, Invoices, etc.) or a list of all available reports (a directory listing)

The Code requires Participants to submit and keep under review Default Data for all Generator Units. The application of Default Data is described in the sections below.

### **2.3.3 Data Transaction Identifiers**

Data Transaction identifiers may be submitted by Participants as part of messages that contain Data Transactions, in accordance with the following:

**1. Data submission** - When submitting Data Transactions containing Elements which belong to the "MI" Class (with the exception of MI Report requests), a Participant may include an External ID. Any External ID that is submitted as part of a Data Transaction and is received by the Market Operator's Isolated Market System shall be included within the response message.

**2. Query of System Data** - When making a query of System Data, a Participant may not include an External ID as part of the associated message. Where an External ID has

been stored as the result of an Accepted Data Transaction, the Market Operator shall include such External ID in the response message to a query.

#### 2.3.4 Data Transaction Validation

Upon submission of a Data Transaction by a Sending Party, the Central Market System shall perform high level validations to ensure that:

1. The submitted message containing the Data Transaction is correctly formatted;
2. The Sending Party is authorised to submit the Data Transaction (including Digital Signature);
3. The Data Transaction is submitted within the required timeframes (as summarised in section 2.3.4); and
4. All required data are present.

Further details on the rules governing the format, content and validation of Data Transactions and response messages are available in the Interface Documentation Set.

When submitting Data Transactions containing MI elements, (with the exception of MI Report requests), the Participant can include an External ID.

When submitting a data query, the Participant cannot include an External Id.

The Market Operator shall include an External Id in the response message to a data query where the External Id has been stored as part of an Accepted Data Transaction.

The Market Systems will perform high level validations to ensure:

The message is correctly formatted;

The Participant is authorised to submit the Data Transaction;

The Data Transaction is submitted within the required timeframes;

That all required data is present;

#### 2.3.5 Data Transactions: submission timescales

The timescales within which Data Transactions can be submitted differ by Data Transaction, where the start and end times are as defined in Table 2.

**Table 2: Submission Windows**

| Submission Window              | Start Time  | End Time  |
|--------------------------------|---|---|
| EA1 Gate Window                | 06:00, 29 days prior to the Trading Day.                | 09:30 on the day prior to the Trading Day               |
| EA2 Gate Window                | 09:30 on the day prior to the Trading Day               | 11:30 on the day prior to the Trading Day               |
| WD1 Gate Window                | 11:30 on the day prior to the Trading Day               | 08:00 on the Trading Day                                |
| System Data retrieval window   | Once Accepted   | No end time, although subject to data availability      |
| Settlement Reallocation window | 06:00, 29 days prior to the Trading Day.                | 10:00 on the day prior to the Invoice Day               |
| Standing Data window           | At any time, following Effective Date of Generator Unit | At any time, following Effective Date of Generator Unit |

Table 3 describes the submission windows applicable to various Data Transactions.

**Table 3: Data Submission Timescales**

| Data Transaction | Permitted Submission Window(s) |
|------------------|--------------------------------|
|------------------|--------------------------------|

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| <u>Data Transaction</u>  | <u>Permitted Submission Window(s)</u> |
|--|---------------------------------------|
| <u>Commercial Offer Data – Default Data</u><br><u>Commercial Offer Data – Normal Submission</u><br><u>Technical Offer Data – Default Data</u><br><u>Technical Offer Data – Normal Submission of non-Validation Technical Offer Data elements that are not Forecast Availability, Minimum Stable Generation and Minimum Output</u><br><u>Technical Offer Data – Forecast Availability, Minimum Stable Generation and Minimum Output</u><br><u>Registration Data / Validation Registration Data</u><br><u>Technical Offer Data – Validation Technical Offer Data Set Selection</u> | <u>EA1 Gate Window</u>                |
| <u>Commercial Offer Data – Normal Submission</u><br><u>Technical Offer Data – Forecast Availability, Minimum Stable Generation and Minimum Output</u><br><u>Technical Offer Data – Validation Technical Offer Data Set Selection</u>   | <u>EA2 Gate Window</u>                |
| <u>Commercial Offer Data – Normal Submission</u><br><u>Technical Offer Data – Forecast Availability, Minimum Stable Generation and Minimum Output</u>  | <u>WD1 Gate Window</u>                |
| <u>Settlement Reallocation</u>   | <u>Settlement Reallocation window</u> |
| <u>Query of System Data</u>  | <u>System Data retrieval window</u>   |
| <u>Commercial Offer Data – Standing Data</u><br><u>Technical Offer Data – Standing Data</u>  | <u>Standing Data window</u>           |

## **2.4 APPROVAL OF DATA TRANSACTIONS**

This section describes the timelines associated with the approval of different Data Transactions and their Elements. Various Data Transactions contain Elements which require more time than others for Market Operator approval (including System Operator approval as appropriate). These are described in Table 4.

**Table 4: Data Transaction Approval Requirements**

| <u>Class</u> | <u>Element</u>          | <u>Approval Requirements</u>   |
|--------------|-------------------------|--|
| <u>MPR</u>   | <u>Application Data</u> | <u>Approval of the Application Data Element as part of the MPR Class is initially performed by the Market Operator during Participant Registration using the Type 1 Channel. (It forms part of the Unit Data spreadsheet in the Registration Pack).</u><br><u>Once submitted, this Element has an approval lead time of up to two Working Days from the date of submission.</u><br><u>All subsequent updates are submitted by the relevant Participant via either Type 2 or Type 3 Channels.</u> |
| <u>MPR</u>   | <u>Users Data</u>       | <u>Approval of the Users Data Element as part of the MPR Class is initially performed by the Market Operator during Participant Registration using the Type 1 Channel. (It forms part of the Unit Data spreadsheet in the Registration Pack).</u><br><u>Once submitted, this Element has an approval lead time of up to two Working Days from the date of submission.</u><br><u>All subsequent updates are submitted by the relevant Participant via either Type 2 or Type 3 Channels.</u>       |

| Class | Element                                | Approval Requirements   |
|-------|--|---|
| MPR   | Contacts Data                          | <p>Approval of the Contacts Data Element as part of the MPR Class is initially performed by the Market Operator during Participant Registration using the Type 1 Channel. (It forms part of the Unit Data spreadsheet in the Registration Pack). Once submitted, this Element has an approval lead time of up to two Working Days from the date of submission.</p> <p>All subsequent updates are submitted by the relevant Participant via either Type 2 or Type 3 Channels.</p>  |
| MPR   | Bank Data                              | <p>Approval of the Bank element as part of the MPR Class is initially performed by the Market Operator during Participant Registration using the Type 1 Channel. In particular, initial Authorised signatories will be notified to Market Operator during Participant Registration and will be confirmed in hard copy format in accordance with the format as specified in Appendix 4 of this document.</p> <p>All subsequent updates are submitted by the relevant Participant via either Type 2 or Type 3 Channels, with an approval lead time of up to two Working Days from the date of submission. Once updates are submitted, the Market Operator will confirm the authorisation of changes with the Participant in accordance with the process as set out in section 3.2, including via hard copy format exchanged in accordance with the format as specified in Appendix 4 of this document.</p>  |
| MPR   | Generator Parameters / Load Parameters | <p>Approval of the Element data items is initially performed by the Market Operator during Participant Registration using the Type 1 Channel. All subsequent updates are via the Type 2 Channel or Type 3 Channel, with specific approval provisions as detailed below.</p> <p>All Data Items can be submitted anytime before EA1 Gate Window Closure with Effective Date of the next Trading Day with the following exceptions:</p> <p><b>Maximum Generation (Registered Capacity)</b><br/>Where an update to Maximum Generation (Registered Capacity) for an Aggregated Generator Unit has arisen from a change in the number of individual Generation Sites associated with the Aggregated Generator Unit in question, the process set out in Section 2.6 of Agreed Procedure 1 "Participant and Unit Registration and Deregistration" shall apply before the relevant Technical Offer Data Transaction is altered.</p> <p><b>Qualified Communication Channel</b><br/>Approval time of at least one Working Day from the date of submission.</p> <p><b>Unit Under Test Start Date</b><br/>Effective Date at least 5 Working Days from date of submission</p> <p><b>Unit Under Test End Date</b><br/>Effective date at least 2 Working Days from date of submission</p> <p><b>Priority Dispatch Flag</b><br/>Effective Date at least 28 days from date of submission.</p> |
| MPR   | Query of System Data                   | <p>May be submitted at any time, with no Market Operator approval. The data returned is that which is available and valid for the date queried, for Class values as follows:</p> <ul style="list-style-type: none"> <li>• Application Data</li> <li>• Users Data</li> <li>• Bank Data</li> <li>• Contacts Data</li> <li>• Unit (Resource) Data</li> </ul>   |

| Class | Element                                | Approval Requirements   |
|-------|--|---|
| MI    | Generator Offer Data                   | Approval of the Element data items is initially performed by the Market Operator during Unit Registration using the Type 1 Channel as part of the registration of Default Data / Standing Offer Data.   |
|       | Demand Offer Data                      | All subsequent updates are via the Type 2 Channel or Type 3 Channel, with no additional Market Operator approval timescales. Section 2.6 describes the rules in respect of Default Data / Standing Offer Data.  |
| MI    | VDS Selection                          | For the Ex-Ante One MSP Software Run:<br>Up to 09:20 on the Day prior to the start of the Trading Day the Participant may select an Approved Validation Data Set.   |
|       | Generator Unit: Technical Offer Data   | For the Ex-Ante Two MSP Software Run:<br>Up to 11:20 on the Day prior to the start of the Trading Day the Participant may select an Approved Validation Data Set.   |
|       | Demand Side Unit: Technical Offer Data |   |
| MI    | VDS Update                             | All Validation Data Set updates have an Approval time up to 10 days from date of submission.  |
|       | Generator Unit: Technical Offer Data   |   |
|       | Demand Side Unit: Technical Offer Data |   |
| MI    | Validation Technical Offer Data Choice | No separate approval timescales for the Market Operator.  |
| MI    | Settlement Reallocation Data           | Up to 1 Working Day before Invoice date. There is no registration data related to Settlement Reallocation.  |
| MI    | Interconnector Offer Data              | May be submitted at any time prior to the relevant Gate Window Closure without any additional approval by the Market Operator.  |
| MI    | MI Report Query                        | May be submitted at any time, with no Market Operator approval. Each MI Report query is limited to: <ul style="list-style-type: none"> <li>one month in the past for daily and weekly reports; and</li> <li>two years in the past for monthly and annual reports.</li> </ul>  |
| MI    | Query of System Data                   | May be submitted at any time, with no Market Operator approval. The data returned is different for each Class value, as follows: <ul style="list-style-type: none"> <li>Generator Offer Data – query limited to one month of data in the past.</li> <li>Demand Offer Data (for Demand Side Units) - query limited to one month of data in the past.</li> <li>Interconnector Offer Data - query limited to one month of data in the past.</li> <li>Settlement Reallocation Data - query limited to two years of data in the past.</li> </ul> |
| STL   | Settlement Report Query                | May be submitted at any time, with no Market Operator approval. Each Settlement Report query is limited to: <ul style="list-style-type: none"> <li>one month in the past for daily and weekly reports; and</li> <li>two years in the past for monthly and annual reports.</li> </ul>  |

Further details on the rules governing the format and makeup of market messages are available in the Interface Documentation Set.

The processing windows during which Data Transactions can be submitted are outlined in the table below:

| Market Window                  |                           |                            |  |
|--------------------------------|---------------------------|----------------------------|--|
| Transactions                   | Start Time                | End Time                   | Comments   |
| Submit Trading Day Data        | 06:00 AM on TD-29 (GC-28) | 10:00 AM on TD-1           | The data submission window opens at 06:00 AM 28 days before Gate Closure (GC), and closes on Trading Day (TD) -1 at 10:00 AM   |
| Query Data submitted           | as available              | 23:59 PM on TD+7           | Data may be Queried according to the Submit timeline, with this functionality being available for an additional 7 days after the Trading Day (TD)  |
| Submit Settlement Reallocation | 06:00 AM on TD-29 (GC-28) | 10:00 AM on Invoice Day -1 | The Settlement Re-allocation data submission window opens as above and closes one day before the issue of the invoice on which the reallocation is to be included (Billing Period/Capacity Period plus 4 working days) |
| Submit Standing Data           | N/A                       | N/A                        | The submission of standing data window is always open—albeit only to be used for Market Submission Windows to be opened in the future  |

**Table 1: Market Interface—Market Windows**



The table below describes the timelines associated with different Data Transactions and their elements. Certain data submissions require more time than others for Market Operator approval. These include certain data submissions relating to Validation Technical Offer Data which must be assessed by the System Operator to inform the Market Operator approval process. The timeline below gives an indication of approval times expected to be required by the Market Operator.

For data queries and report queries no Market Operator approval is required.

| Data Transaction | Class | Element of Data Transaction | Timeline  |
|------------------|-------|-----------------------------|---|
| Data submission  |       |                             |   |
|                  | MPP   | Unit (Resource) Data        | <p>Can be submitted anytime before Gate Closure with effective date the next Trading Day with the following exceptions:</p> <p><u>Up to 09:50 on the Day prior to the start of the Trading Day</u>, the Participant may select an <u>Approved Validation Data Set</u></p> <p><u>Approval time up to 10 days from date of submission: Validation Data Set</u></p> <p>Where an update to Maximum Generation (Registered Capacity) for an Aggregated Generator Unit has arisen from a change in the number of individual Generation Sites include within the Unit in question, the process set out in Section 2.6 of Agreed Procedure 1 "Participant and Unit Registration and Deregistration" shall apply in advance of the process to alter to the relevant Technical Offer Data Transaction described immediately above.</p> <p><u>Approval time of at least 1 Working Day from date of submission</u></p> <p><u>Qualified Communication Channel</u></p> <p><u>Effective date at least 2 Working Days from date of submission</u></p> <p><u>Unit Under Test End Date</u></p> <p><u>Effective Date at least 5 Working Days from date of submission</u></p> <p><u>Unit Under Test Start Date</u></p> <p><u>Effective date at least 28 days from date of submission</u></p> <p><u>Priority Dispatch flag</u></p> |

| Data Transaction | Class | Element of Data Transaction | Timeline  |
|------------------|-------|-----------------------------|---|
|                  |       |                             | Approval time up to 28 days from date of submission; Validation Registration Data<br>IM Resource Name<br>Performed initially during Participant Registration using Type 1 Channel, subsequent updates via Type 2 or Type 3 Channel  |
|                  | MPP   | Application Data            | Can be submitted anytime before Gate Closure with approval time of up to 2 Working Days from date of submission.<br>Performed initially during Participant Registration using Type 1 Channel, subsequent updates via Type 2 or Type 3 Channel.  |
|                  | MPP   | Contacts Data               | Can be submitted anytime before Gate Closure with approval time of up to 2 Working Days from date of submission.<br>Performed initially during Participant Registration using Type 1 Channel, subsequent updates via Type 2 or Type 3 Channel.  |
|                  | MPP   | Users Data                  | Can be submitted anytime before Gate Closure with approval time of up to 2 Working Days from date of submission<br>Performed initially during Participant Registration using Type 1 Channel, subsequent updates via Type 2 or Type 3 Channel.   |
|                  | MPP   | Bank Data                   | Can be submitted anytime before Gate Closure with approval time of up to 2 Working Days from date of submission. This assumes that Participant has agreed all of this data with their bank prior to submission to the Market Operator. Additionally the Market Operator must confirm the authorisation to change the details by completing the steps in table 1A – Authorisation to change Banking Details.<br>Performed initially during Participant Registration using Type 1 Channel, subsequent updates via Type 2 or Type 3 Channel, which will be confirmed via Type 1 Channel by MO and verified |

| Data Transaction | Class | Element of Data Transaction          | Timeline   |
|------------------|-------|--------------------------------------|--|
|                  |       |                                      | by MP by way of a hard copy submission. Initial Authorised signatories will be notified to MO during Participant Registration, changes to authorised signatories will be notified with the submission of a hard copy and the format specified in Appendix 4 and the steps outlined in Table 1A will be followed. |
|                  | MI    | Generator Offer Data                 | Anytime before Gate Closure<br>Performed initially during Unit Registration to register the Standing Offer Data using Type 1 Channel, subsequent updates via Type 2 or Type3 Channel<br>Refer to section 2.4 of this document related to default rules   |
|                  | MI    | Load Bid Data (for Demand Side Unit) | Anytime before Gate Closure<br>Performed initially during Unit Registration to register the Standing Offer Data using Type 1 Channel, subsequent updates via Type 2 or Type3 Channel<br>Refer to section 2.4 of this document related to default rules   |
|                  | MI    | Interconnector Offer Data            | Anytime before Gate Closure  |
|                  | MI    | Settlement Reallocation Data         | Up to 1 Working Day before Invoice date. There is no registration data related to Settlement Reallocation  |
| Data query       |       |                                      |  |
|                  | MPR   | Application Data                     | Anytime. Data returned is that which is valid for the relevant date queried  |
|                  | MPR   | Contacts Data                        | Anytime. Data returned is that which is valid for the relevant date queried  |
|                  | MPR   | Users Data                           | Anytime. Data returned is that which is valid for the relevant date queried  |
|                  | MPR   | Bank Data                            | Anytime. Data returned is that which is valid for the relevant date queried  |
|                  | MPR   | Unit (Resource) Data                 | Anytime. Data returned is that which is valid for the relevant date queried  |
|                  | MI    | Generator Offer Data                 | Anytime but limited to 1 months worth of data in the past  |
|                  | MI    | Load Bid Data (for Demand Side Unit) | Anytime but limited to 1 months worth of data in the past  |
|                  | MI    | Interconnector Offer Data            | Anytime but limited to 1 months worth of data in the past  |

| Data Transaction | Class | Element of Data Transaction             | Timeline   |
|------------------|-------|---|--|
|                  | MI    | Settlement Reallocation Data            | Anytime but limited to limited to 2 years worth of data in the past  |
| Report query     |       |   |  |
|                  | STL   | Settlement Reports                      | Anytime, but limited to 1 month in the past for daily and weekly reports and limited to 2 years in the past for monthly and annual reports |
|                  | MI    | All reports (except Settlement Reports) | Anytime, but limited to 1 month in the past for daily and weekly reports and limited to 2 years in the past for monthly and annual reports |

**Table 1a – Authorisation to change Banking Details**

| Step   | MO Action   | MP Action   |
|--------|---|---|
| Step 1 | -   | MP sends in revised banking details using type 2 or type 3 channel  |
| Step 2 | MO faxes the proposed revised banking details, to the fax number specified in the appendix 4 document, for authorisation to MP using type 1 channel (template fax in Appendix 3)        |   |
| Step 3 |   | MP verifies that banking details on fax match revised banking details by adding A and B signatures of authorised personnel and submits this document in its original form to MO by registered post. |
| Step 4 | MO verifies that signatures on fax (returned by registered post) match their copy of authorised signatures (hardcopy of template in Appendix 4)   | -   |
| Step 5 | MO faxes or emails MP (as specified on Appendix 4) to confirm Banking details have been verified and will be changed on the effective date provide in the banking details.              | -   |
| Step 6 | MO changes Banking details within 5 working days of the banking details being verified. With effect from the effective date provided in the banking detail changes.                     |   |
| Step 7 |   | If MP wants to change Authorised signatories then they must re-submit the details with the form shown in Appendix 4 by submitting it in its original form by registered post.                       |
| Step 8 | MO faxes or emails MP (as specified on Appendix 4) to confirm receipt of updated Authorised signatories. MO uses latest authorised signatures for any future change to banking details. |   |

## 2.22.5 TABLE 2—DATA SUBMISSION TIMELINES: MARKET OPERATOR RESPONSE MESSAGES FROM THE MO

For all Type 3 Channel communications and for all Type 2 Channel communications that involve uploading an xml file to the Market Operator, the ~~sender~~ Sending Party shall will receive a response message from the Market Operator's Isolated Market System ~~as per the detailed in Table 5~~ below.

For Type 2 Channel ~~submissions using interactions via~~ Web Forms, the responses will be displayed on the screen.

**Table 5: Data Transaction Market Operator Response Messages**

| Class               | Request      | Response if Valid                                  | Response if Invalid   |
|---------------------|--------------|--|---|
| MI (not MI Reports) | Submit       | Original Data , Processing Statistics and Messages | Original Data , Processing Statistics and Messages  |
| MI (not MI Reports) | Query        | Original Data , Processing Statistics and Messages | Original Data , Processing Statistics and Messages  |
| MPR                 | Submit       | Original Data , Processing Statistics and Messages | Original Data , Processing Statistics and Messages  |
| MPR                 | Query        | Original Data and Messages                         | Original Data and Messages  |
| MI Report           | List Reports | Original Data and Messages                         | Original Data and Messages  |
| MI Report           | Report       | Report   | Original Data and Messages  |
| STL                 | List Reports | File List  | Empty List  |
| STL                 | Report       | File   | 1. Requested File not found<br>2. Invalid Filename<br>3. XML request not well formed<br>4. There was an error processing the request<br>5. Invalid request type |

| Class               | Request      | Request Response –Valid                            | Response — Invalid   |
|---------------------|--------------|--|--|
| MI (not MI Reports) | Submit       | Original Data , Processing Statistics and Messages |  |
| MI (not MI Reports) | Query        | Original Data , Processing Statistics and Messages |  |
| MPR                 | Submit       | Original Data , Processing Statistics and Messages |  |
| MPR                 | Query        | Original Data and Messages                         |  |
| MI Report           | List Reports | Original Data and Messages                         |  |
| MI Report           | Report       | Report   | Original Data and Messages   |
| STL                 | List Reports | File List  | Empty List   |
| STL                 | Report       | File   | Requested File not found<br>Invalid Filename<br>XML request not well formed<br>There was an error processing the request<br>Invalid request type |

The response message, which includes the Confirmation Notice for the Data Transaction and the Validation Notice/Rejection Notice for each element within the Data Transaction, will be automatically submitted by the Market Operator when a Data Transaction occurs. If the expected response is not received within an acceptable timeframe the Participant should check their internet connection and systems. If this does not reveal an issue the Participant should contact the Help Desk.

Agreed Procedure 7 "Emergency Communications" details emergency communications and the required notification processes.

Each response message shall include the Confirmation Notice for the Data Transaction and the Validation Notice/Rejection Notice for each element within the Data Transaction. Such response message shall be automatically submitted by the Market Operator when a Data Transaction is received. If an expected response message is not received within an acceptable timeframe, the affected Participant shall check their internet connection and systems and contact the Help Desk. In the event that such check does not resolve the issue, Agreed Procedure 7, "Emergency Communications" provides details of emergency communications and the associated notification processes.

## **2.3.2.6 DEFAULT DATA RULES RELATED TO OFFER DATA SUBMISSION**

### **2.3.2.6.1 Introduction**

Default Data comprises As an introduction to the terminology used below, Technical Offer Data (TOD) and Commercial Offer Data (COD), which are categories of Offer Data as set out in the Code.

Default rules for TOD and COD apply for Generator Units are applied, unless otherwise specified in the Code, in order to ensure that valid TOD or COD will be available at Gate Window Closure. Default Data comprises various data items of Commercial Offer Data, Technical Offer Data and Registration Data.

### **2.6.2 Registration Default Data**

Registration Default Data refers to business data, in the Generator Parameters or Load Parameters Element (as detailed in Business Data Contained in Each ElementBusiness Data Contained in Each Element). It is not anticipated that Registration Default TOD will change on a regular basis and is considered similar to static data.

#### **Initial Submissions of Registration Default Data at Unit Registration**

Registration Default Data must be submitted during Unit Registration. Once approved by the Market Operator, this Registration Default Data will apply from the first Trading Day of participation in respect of the Unit and will be effective indefinitely, until updates are submitted and approved.

In respect of Technical Offer Data, the following will be submitted as part of Unit Registration:

- a set choice via the Validation Data Sets web page (Validation Technical Offer Data).
- Registration TOD via the Standing Offer Data channel.

#### **Submissions of Updates to Registration Default Data**

Registration Default Data can be updated by a Participant at any time, by submitting new Registration Default Data (comprising the Generator Parameters Element or Load Parameters Element). Once approved, the Registration Default Data will be applicable from an 'Effective From' date as specified in the Data Transaction.

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All COD, including ~~ef~~ Default Data, will be submitted via the Standing Offer Data and Offer Data channels. There will be two subsets of TOD submitted, a set choice via the -Validation Data Sets web page (Validation Technical Offer Data) and additional TOD via the Standing Offer Data and Offer Data channels.

### 2.6.3 Standing Offer Data

Standing Offer Data comprises Generator Offer Data and Demand Offer Data Elements (as detailed in ~~0~~APPENDIX 2: Business Data Contained in Each Element~~Business Data Contained in Each Element~~). Standing Offer Data is comprised of both Commercial Offer Data and Technical Offer Data items, and is utilised as Starting Gate Window Data in respect of the Ex Ante One MSP Software Run to ensure that there is always valid Offer Data available for a Generator Unit (as described in section 2.6.52.6.52-6.4).

Standing Offer Data has a Day Type Parameter which defines generic calendar days for which the registered data will apply. The Day Type Parameter in respect of Standing Data may have one of the values SUN, MON, TUE, WED, THU, FRI, SAT or ALL. Each Generator Unit must have a Standing Offer Data set of type "ALL". It is optional to submit Standing Offer Data sets with one or more of the other Day Type Parameter values.

1. Where the Day Type Parameter has value "ALL", the corresponding Standing Data shall:

- a. apply to any date where Standing Offer Data does not have a Day Type Parameter that is set to "ALL"; and
- b. have no Expiry Date.

2. Where the Day Type Parameter does not have value "ALL", the corresponding data may have an optional associated Expiry Date which shall be defined by the Participant upon submission.

- a. If no Expiry Date is associated with the Standing Data set, the values shall be used indefinitely by the Market Operator for the relevant calendar day which corresponds with the Day Type Parameter value.
- b. Following the Expiry Date for a given set of Standing Data with a particular Day Type Parameter value, the Market Operator shall not utilise the data as Default Data for the associated Generator Unit.

Standing Offer Data is initially created as part of the Unit Registration process and may be updated following Communication Channel Qualification (i.e. when access to the Central Market Systems is granted to a Participant by the Market Operator).

The earliest effective date for a Standing Offer Data submission is Current Day + 29 days. In the event that Data Conversion (i.e. changing Standing Offer Data to Commercial Offer Data and Technical Offer Data at the relevant Submission Window opening) fails, the Market Operator shall contact the Participant to add Commercial Offer Data and Technical Offer Data and update Standing Offer Data if appropriate, with an aim to resolve the situation within 5 Working Days.

### 2.6.4 Submission of Standing Offer Data, Commercial and Technical Offer Data

Standing Offer Data and /or Commercial and Technical Offer Data must be submitted by Participants using the relevant designated Communication Channels.

1. As part of the initial registration (as described in Agreed Procedure 1 "Participant and Unit Registration and Deregistration"), the Market Operator will enter Standing Offer Data and/or Commercial and Technical Offer Data on behalf of all Participants.

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2. Where emergency communications are required (process in Agreed Procedure 7 "Emergency Communication"), the Market Operator will enter Standing Offer Data and/or Commercial and Technical Offer Data on behalf of any affected Participant.

3. In all other circumstances, the Market Operator shall not enter Standing Offer Data or Commercial and Technical Offer Data on behalf of Participants. If a Participant fails to submit Offer Data for a particular Trading Day then Starting Gate Window Data shall be used as outlined in Section 2.6.5.

### 2.6.5 Starting Gate Window Data

For each Gate Window, the Starting Gate Window Data shall be defined as in Table 6 and shall be the Default Data in respect of the Gate Window in the event that no Data Transactions including the required data items are Accepted within the associated Gate Window.

**Table 6: Starting Gate Window Data**

| Gate Window | Starting Gate Window Data   |
|-------------|---|
| EA1         | <ul style="list-style-type: none"><li>Commercial and Technical Data if Accepted within the EA1 Gate Window; or</li><li>Standing Offer Data with Day Type Parameter corresponding to the relevant Trading Day, if such data is registered; or</li><li>Standing Offer Data with Day Type Parameter "ALL".</li></ul> |
| EA2         | <ul style="list-style-type: none"><li>Commercial and Technical Data if Accepted within the EA2 Gate Window; or</li><li>Accepted data as at the EA1 Gate Window Closure.</li></ul>   |
| WD1         | <ul style="list-style-type: none"><li>Commercial and Technical Data if Accepted within the WD1 Gate Window; or</li><li>Accepted data as at the EA2 Gate Window Closure.</li></ul>   |

The rules the Participant must follow, and the MO will apply to ensure valid Offer Data are available, are supported by rules around the submission and validation timelines of Offer Data. These rules are described in the following sections.

#### Definitions of Offer Data types:

**Registration Default Data:** refers to the data (submitted using the Unit (Resource) Data Element<sup>1</sup>) which must be submitted by Participants during Unit Registration and Approved by the relevant System Operator to apply from the first Trading Day of participation. Any future updates to this Registration Default Data, must be provided by the Participants and approved by the Market Operator and relevant System Operator (using the high level validation in section 2.2.2.2 of this AP and Section 3 of the Code). Because there is always active approved Registration Default Data, this meets the Default Data requirements in the Code.

**Standing Offer Data:** refers to TOD and COD (submitted using the appropriate<sup>2</sup> elements) which must be submitted by Participants during Unit Registration to apply from the first Trading Day of participation. For any future updates to this Standing Offer Data, Participants must submit Standing Offer Data prior to the opening of the Market Submission Window.

**Trading Offer Data:** refers to the daily submission of COD and TOD (that is not Validation Technical Offer Data) from Participants which can occur within the Market Submission Window (i.e. from 06:00 29 days before Gate Closure to Gate Closure) and will be applicable for the Trading Day specified in the Data Transaction.

**Validation Data Set:** as defined in the Code.

1 ——— Refer to section 02.2

2 ——— 'Generator Offer Data', 'Load Bid Data', 'Interconnector Offer Data'

As approved Standing Offer Data will be converted to Trading Offer Data at Market Submission Window opening, submissions of Trading Offer Data will always be an update to Offer Data.

For the avoidance of doubt, all COD, including Default Data, will be submitted via the Standing Offer Data and Trading Offer Data channels. There will be two subsets of TOD submitted, a set choice some via the Validation Data Sets web page (Validation Technical Offer Data) and additional TOD some via the Standing Offer Data and Trading Offer Data channels. Details of with which interface TOD are submitted is provided in Appendix B of this Agreed Procedure.

The high level validations mentioned in section 2.2.2 apply to Offer Data at the point of submission.

The submission timeline rules applying to the different types of Offer Data are described in the following sections and are summarised in the Default Rules Diagram below.

The following sections outline how the Default Data for Commercial Offer Data and Technical Offer Data, as defined in the Code, are supported in the Market Operator's Isolated Market System through a combination of functionality called Registration Default TOD, Standing Offer Data and Trading Offer Data.

## **2.6.6 Validation Technical Offer Data:**

### **2.6.6.1 Submission of Validation Data Sets:**

Participants may create up to six Validation Data Sets (VDS) via the MPI. The VDS designated number "one" is designated the "Default" set. Participants may submit each of the six Validation Data Sets via the MPI "Validation Data Sets" web page. Upon receipt of a new Validation Data Set, the Market Operator will forward the set to the System Operator (SO) for approval. If approval is received, the Market Operator shall approve each of the Validation Data Sets through the MOI displays. Thereafter, the Validation Data Sets will be identified using its VDS set number.

### **2.6.6.2 Choice of Validation Data Sets for a Gate Window:**

In submitting a Validation Data Set selection to a particular Gate Window, Participants may submit three values: a Trading Day, Validation Data Set Number designating the VDS selected for that respective Trading Day and an identifier of the Gate Window to which the Validation Data Set selection relates. This data will be submitted via the Validation Data Sets web page or via Type 3 communication.

This data will be accepted up to 10 minutes prior to Gate Window Closure, for :

Choices of VDSs may be may for the EA1 and EA2 Gate Windows only. Following 10 minutes prior to the relevant Gate Window Closure, Participants will be blocked from making any further choice of Validation Data Set data for a given Gate Window. In the event that a Participant does not make an explicit VDS number choice for a given Gate Window, the Default Data shall apply.

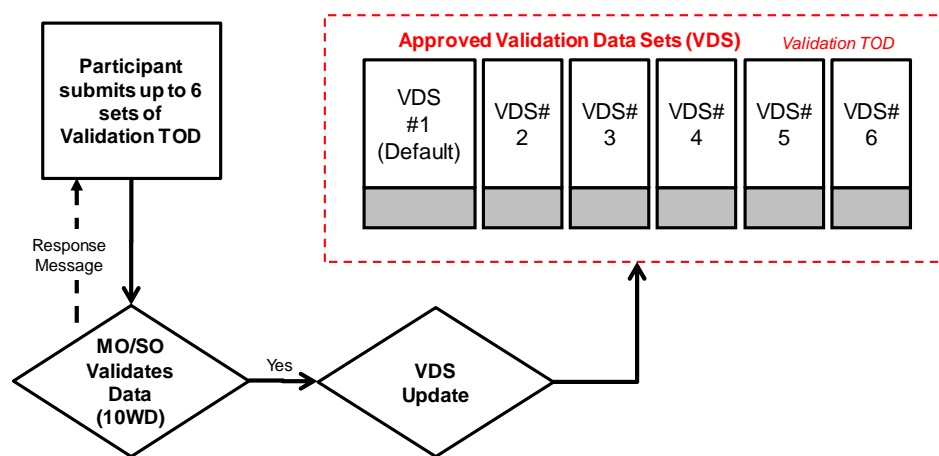
Participants may upload each of the Validation Data Sets -via file upload in the browser as well as via programmatic communication (such as through the toolkit).

10 minutes prior to Gate Window Closure, Participants will be blocked from making any further choice of Validation Data Set data for a given Gate Window. If a Participant does not make an explicit VDS number choice for a given Gate Window, the Contingency data rules apply as specified in ?????.

### 2.6.6.3 Change of Validation Data Set:

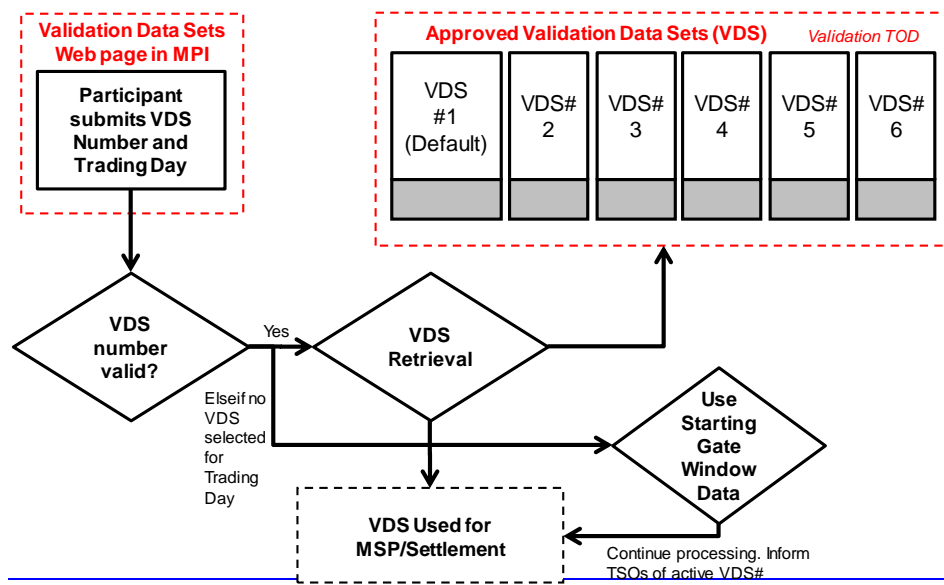
If a Participant wishes to change the data elements of one of its six Validation Data Sets, it may do so using the "Submission of Validation Data Sets" process above. There is an approval time of up to ten days for changes to VDSs.

#### Initial set-up of 6 Validation Data Sets



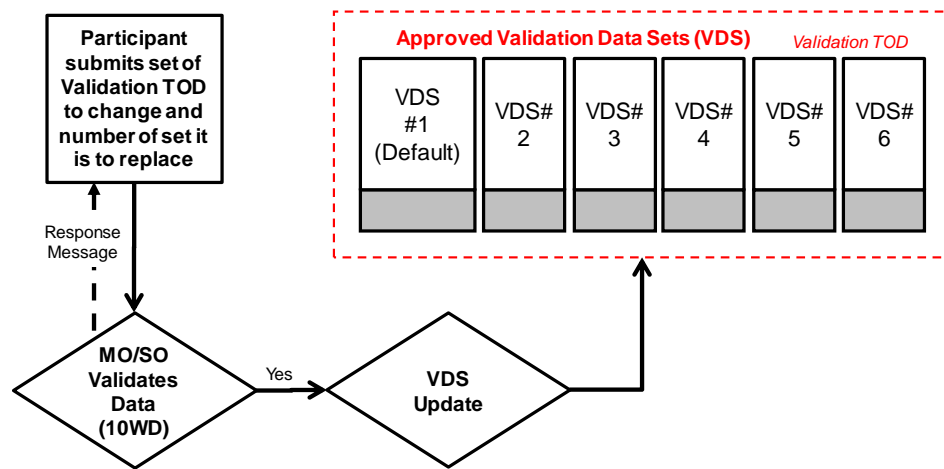
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#### Daily Choice of Validation Data Sets



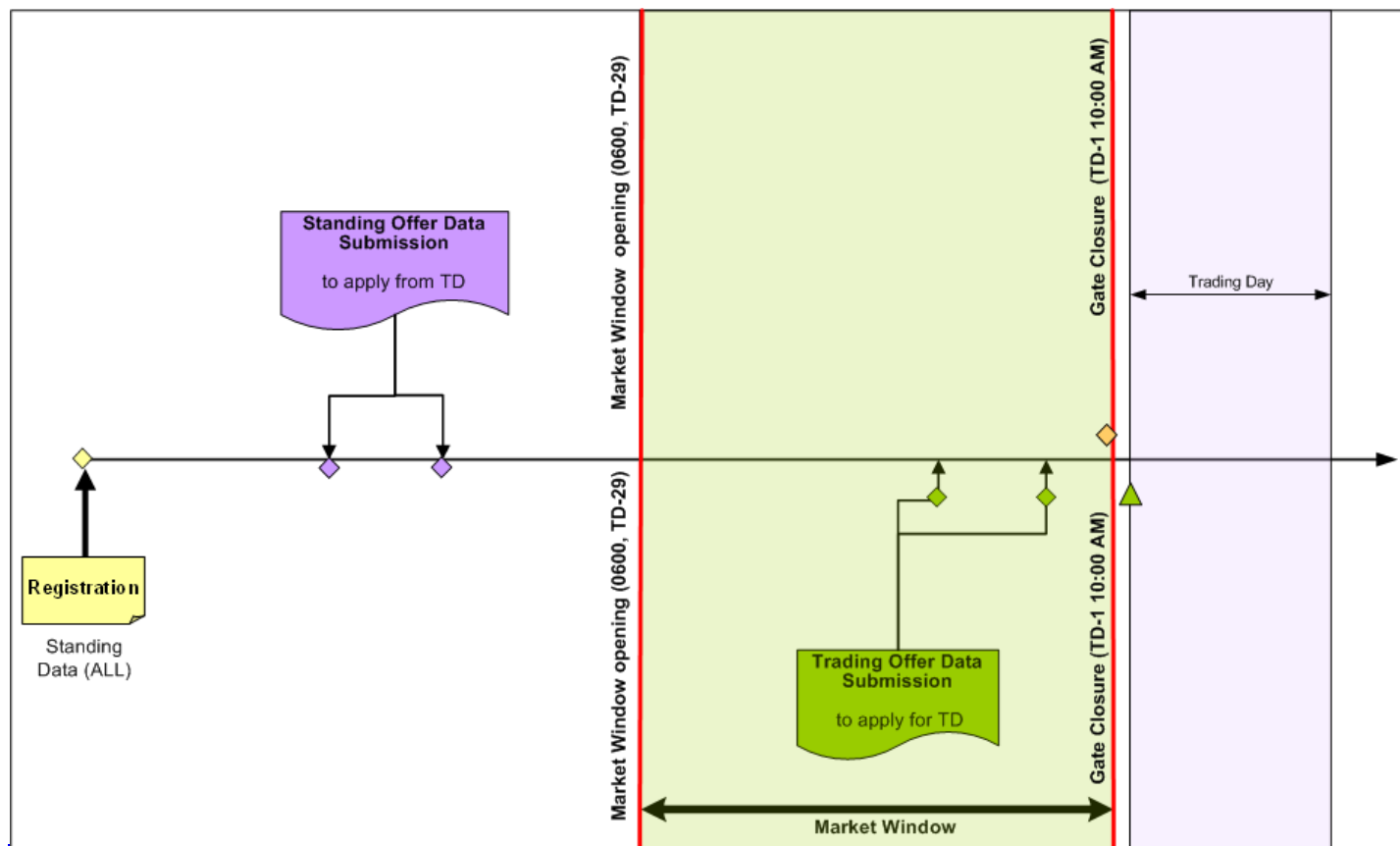
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#### Validation Data Set Update



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### 2.3.2 Default Rules Diagram



### 2.3.3 — Registration Default Data

Registration Default Data refers to business data, in the Unit (Resource) Data element (as detailed in Business Data Contained in Each Element Business Data Contained In Each Element). It is not anticipated that Registration Default TOD will change on a regular basis and is considered similar to static data.

#### Submissions at Unit Registration

Registration Default Data must be submitted during Unit Registration. Once approved by the Market Operator, this data will apply from the first Trading Day of participation and will continue to be effective indefinitely, or until updates are submitted and approved.

#### Submissions of Updates

Registration Default Data can be updated at anytime by submitting new Registration Default Data, and once approved will be applicable from an 'Effective From' date specified in the Data Transaction. The 'Effective From' must comply with

At Gate Closure the approved Registration Default Data is utilised for the next appropriate Trading Day.

#### Standing Offer Data

Standing Offer Data refers to Offer Data in the Generator Offer Data, Load Bid Data, Interconnector Offer Data elements (as detailed in the Business Data Contained In Each Element). Standing Offer Data is comprised of COD and TOD items.

Standing Offer Data represents the Default Data for those items submitted in this Data Transaction.

Standing Offer Data can be created at any time

It is automatically used to create Trading Offer Data immediately after the opening of the appropriate market submission window (28 days in advance of Gate Closure)

As part of Unit Registration, one set of data is manually submitted and is entered by the Market Operator onto the system with a parameter of "ALL" (valid for all days). There is no expiry for this, as Default Data (see below) is always required on the system

After Communication Channel Qualification — i.e. once access to the system is granted — Participants may update the Standing Offer Data (type "ALL")

Participants may also submit Standing Offer Data for specific day types (SUN, MON, ..., SAT). These may optionally have an expiration date

If an expiration date is used, the Standing Offer Data will be used daily and automatically cancelled after the expiration date

If no expiration date is given, the Standing Offer Data will be used indefinitely, or until the Participant supersedes the specific day type data

The latest Standing Offer Data available is used at Gate Closure where no valid Trading Offer Data has been submitted.

The use of Standing Offer Data, ensures that there is always valid Offer Data available for a Unit

The effective date must be greater than the date for which the specific day type Standing Offer Data will be processed by Standing Offer Data Conversion. The earliest effective date for a Standing Offer Data submission is Current Day + 29 days, based on a Market Submission Window of 28 days.

At Market Submission Window opening, if for a given Trading Day there is Standing Offer Data for both a specific day type and "ALL", the system will only use the specific day type.

There are some circumstances whereby it is possible that Data Conversion—changing Standing Offer Data to Trading Offer Data at Market Submission Window opening—could fail. In this case the Market Operator will contact the Market Participant to add Trading Offer Data and update Standing Offer Data if appropriate. Although there are 29 days before this data will be used, it is expected that the situation should be resolved within 5 Working Days

#### Trading Offer Data

Trading Offer Data refers to any Offer Data in the Generator Offer Data, Load Bid Data, Interconnector Offer Data (as detailed in the Business Data Contained In Each Element). Trading Offer Data applies for the Optimisation Time Horizon for a given Trading Day only.

Trading Offer Data comprises of COD and TOD items.

The use of Trading Offer Data, pre-populated by Standing Offer Data, ensures that there is always valid Offer Data available for a Unit

The latest Trading Offer Data available is used at Gate Closure

Trading Offer Data submissions will be validated and processed upon receipt, and the Participant will be informed of the results of validation and processing

The communication mechanism during data submission is synchronous.

Participants have the ability to revise Trading Offer Data as many times as necessary within the appropriate Market Submission Window.

#### Data Transactions within Market Submission Window Opening

Trading Offer Data can be submitted at anytime within the Market Submission Window and will be applicable for the Trading Day specified in the Data Transaction.

At Gate Closure the latest Accepted Trading Offer Data will be used for the Trading Day.

#### Timings of Submissions

Transactions received by the Market Operator's Isolated Market System are generally processed on a first come first served basis. However, to facilitate throughput, various levels of parallelism and pooling are implemented which could result in certain scenarios under which this sequencing cannot be guaranteed. Also, as a Transaction may be serviced by either of the Web Interface systems, at either Market Operator site, sequencing may also be affected

The solution architecture for SEM is cognisant of the fact that there are multiple users on multiple channels that may be submitting updates to the same data

As such, any specific requirement around sequencing which a Participant identifies will need to have appropriate business and system processes implemented by the Participant to match the implementation required by them

For example, a Market Participant who chooses to only use the Type 3 Channel from a single user with a single login could configure their application such that each transaction is submitted in sequence and a subsequent transaction is not submitted until a response has been received

Other implementations may need to recognise that not all submissions may need to be sequenced, e.g. Market Interfaces vs. Registration, but that there may be submission by multiple users on multiple channels

#### Submission of Standing and Trading Offer Data

For the avoidance of doubt, Standing Offer Data and /or Trading Offer Data must be submitted by Participants using their designated Communication Channel (Type 2 Channel or Type 3 Channel). Outside of initial registration (process in Agreed Procedure 1 "Participant and Unit Registration and Deregistration") or emergency communications (process in Agreed Procedure 7 "Emergency Communication"), the Market Operator will not enter such Offer Data on a Participant's behalf. If a Participant fails to submit Offer Data for a particular Trading Day then that Participant's Default Offer Data will be used.



### 3. PROCEDURE DEFINITION

#### 3.1 PROCESS FOR DATA SUBMISSION, QUERY AND REPORT REQUEST

The Participant's system, subject to the associated access rules, establishes a connection with the Market Operator's Isolated Market System.

The Participant's system selects their required Data Transaction and submits it using the established connection.

The Participant's system then receives a response message from the MO over the established connection.

If the response message indicates that there is no error in any element of a Data Transaction, that Data Transaction and all the elements specific to that Data Transaction have been stored in the Market Operator's Isolated Market System.

If the response message indicates that there is an error in a Data Transaction for a given element, this particular Data Transaction is rejected. The Participant will have to build a new Data Transaction and submit it as described in the previous steps. The other Data Transactions included in the same communication which have no errors are successfully stored in the system.

For Type 3 Channel, the connection uses Web Services.

For Type 2 Channel the connection uses Web Forms. The Web Forms may be used to upload previously built Data Transactions (excluding report requests) or the data can be entered directly into specific Web Forms.

Table 7 details the process by which Data Transactions are submitted via Type 2 Channel or Type 3 Channel by a Participant. The process also describes the actions required by the Market Operator (including via its Isolated Market System) to receive Data Transactions submitted by Participants via Type 2 and Type 3 Channels.

**Table 7: Participant Data Transaction Submission Process**

| Step   | Market Operator Action  | Participant Action   |
|--------|---|--|
| Step 1 |   | Participant system establishes a connection with the Market Operator's Isolated Market System.   |
| Step 2 |   | Participant system selects the required Data Transaction and submits it using the established connection.  |
| Step 3 | Market Operator's Isolated Market System returns a response message over the established connection.  |  |
| Step 4 |   | Participant system receives the response message over the established connection.  |
| Step 5 | If the response message indicates that there is no error in any Element of a Data Transaction, this confirms that the submitted Data Transaction and all of the relevant Elements of the Data Transaction have been stored in the Market Operator's Isolated Market System.   |  |
| Step 6 | If the response message indicates that there is an error in a Data Transaction for a given Element, this particular Data Transaction shall be rejected. Any other Data Transactions included within the same message which have no errors shall be deemed successful and shall be stored in the Market Operator's Isolated Market System. | If the response message indicates that there is an error in a Data Transaction for a given Element, the Participant shall, as required, submit a new Data Transaction. |
| Step 7 |   | If no response is received, the Participant shall act in accordance with paragraph 3.33 of the Code.   |

|

### 3.2 PROCESS FOR AUTHORISATION TO CHANGE BANKING DETAILS

Table 8 details the process by which authorisation is carried out by a Participant in respect of its banking details. This process includes a number of steps which shall be carried out via Type 1 Channel communication, but may be instigated by submission by a Participant of a Data Transaction containing new or updated banking details via a Type 2 Channel or Type 3 Channel.

**Table 8: Authorisation to change Banking Details**

| Step   | Market Operator Action   | Participant Action  |
|--------|--|---|
| Step 1 |  | MP sends in revised banking details using Type 2 or Type 3 channel  |
| Step 2 | MO faxes the proposed revised banking details, to the fax number specified in the Appendix 4 document, for authorisation to MP using Type 1 channel (template fax in Appendix 3) |   |
| Step 3 |  | MP verifies that banking details on fax match revised banking details by adding A and B signatures of authorised personnel and submits this document in its original form to MO by registered post. |
| Step 4 | MO verifies that signatures on fax (returned by registered post) match their copy of authorised signatures (hardcopy of template in Appendix 4)                                  |   |
| Step 5 | MO faxes or emails MP (as specified on Appendix 4) to confirm Banking details have been verified and will be changed on the effective date provided in the banking details.      |   |
| Step 6 | MO changes Banking details within 5 working days of the banking details being verified. With effect from the effective date provided in the banking detail changes.              |   |
| Step 7 |  | If MP wants to change Authorised signatories then they must re-submit the details with the form shown in Appendix 4 by submitting it in its original form by registered post.                       |

## DEFINITIONS AND ABBREVIATIONS

### DEFINITIONS

|   |  |
|---|--|
| <b>Aggregated Generator Unit</b>          | As defined in the Code   |
| <b>Application Data</b>                   | <u>Means data relating to the Party or Participant registrant</u>  |
| <b>Autonomous Generator Unit</b>          | As defined in the Code   |
| <b>Bank Data</b>                          | Means data relating to banking details first submitted at Party registration   |
| <b>Billing Period</b>                     | As defined in the Code   |
| <b>Capacity Period</b>                    | As defined in the Code   |
| <b><u>Class</u></b>                       | <u>Means a classification of data submitted by Participants in Data Transactions as contained within a single message.</u>                         |
| <b>Code</b>                               | As defined in the Code   |
| <b>Commercial Offer Data <u>(COD)</u></b> | As defined in the Code   |
| <b>Communication Channel</b>              | As defined in the Code   |
| <b>Connection Agreement</b>               | As defined in the Code   |
| <b>Contacts Data</b>                      | Means data relating to Party contact for certain functions as submitted by the Party   |
| <b>Credited Participant</b>               | As defined in the Code   |
| <b>Data Transaction</b>                   | As defined in the Code   |
| <b><u>Day Type Parameter</u></b>          | <u>Means a parameter which is associated with Standing Data, which specifies whether that Standing Data applies generically to a calendar day.</u> |
| <b>Debited Participant</b>                | As defined in the Code   |
| <b>Default Data</b>                       | As defined in the Code   |
| <b>Demand</b>                             | As defined in the Code   |
| <b>Demand Side Unit</b>                   | As defined in the Code   |
| <b>Digital Certificate</b>                | As defined in Agreed Procedure 5 "Data Storage and IT Security"  |

|   |  |
|---|--|
| <b>Element</b>                            | <p>An element is a set of business data. The 12 elements in scope are listed below:</p> <p>Application Data – MPR</p> <p>Contacts Data – MPR</p> <p>Users Data – MPR</p> <p>Bank Data – MPR</p> <p>Unit (Resource) Data – MPR</p> <p>Generator Offer Data – MI</p> <p><u>Load Bid Demand Offer</u> Data (for Demand Side Unit) – MI</p> <p>Interconnector Offer Data – MI</p> <p>Settlement Reallocation Data – MI</p> <p>Reports (except settlement Reports) – MI</p> <p>Settlement Reports – STL</p> |
| <b>Energy Limit</b>                       | As defined in the Code   |
| <b>Energy Limited Generator Unit</b>      | As defined in the Code   |
| <b>External ID</b>                        | For submission of Data Transactions, the schema will allow the Participant to provide an optional Data Transaction ID, called External ID  |
| <b>Framework Agreement</b>                | As defined in the Code   |
| <b>Gate <u>Window</u> Closure</b>         | As defined in the Code   |
| <b>Generator</b>                          | As defined in the Code   |
| <b>Generator Unit</b>                     | As defined in the Code   |
| <b>Help Desk</b>                          | As defined in Agreed Procedure 11 “Market System Operation, Testing, Upgrading and Support”  |
| <b>Interconnector Administrator</b>       | As defined in the Code   |
| <b><u>Interface Documentation Set</u></b> | <u>A set of documentation prepared by the Market Operator which describes the Participant interfaces to the Central Market Systems. This documentation shall include detail of the required content of Type 2 and Type 3 Data Transactions submitted by Participants, validations undertaken and the content of response messages.</u>   |
| <b>Invoice Due Date</b>                   | As defined in the Code   |
| <b>Isolated Market System</b>             | As defined in the Code   |

|   |   |
|---|---|
| <b><u>Load Bid Demand Offer Data</u></b>      | Unit bid data provided by a Participant   |
| <b>Market Interface</b>                       | Data Transactions that cover market related data submitted by Participants  |
| <b>Market Operator</b>                        | As defined in the Code  |
| <b>Market Participant Registration</b>        | Data Transactions that cover additional Technical Offer Data not included in the Market Interface class   |
| <b><u>Market Submission Window</u></b>        | <del>The period in which Trading Offer Data can be submitted by Participants. The window is open at 06:00 29 days prior to Trading Day and is closed at Gate Closure for that Trading Day</del> |
| <b>Market Timeline</b>                        | A period of time at which certain actions are taken or recorded that begins when at Unit Registration and ends at Trading Day   |
| <b>Market Web Interface</b>                   | The mechanism through which Participants can send and receive Data Transactions through Type 2 Channel communication  |
| <b>Market Website</b>                         | -As defined in the Code   |
| <b>Offer Data</b>                             | As defined in the Code  |
| <b>Participant Registration</b>               | Means the process of becoming a Participant in respect of a Unit as described in Agreed Procedure 1 "Participant Registration and Unit Registration and Deregistration"                         |
| <b>Party</b>                                  | As defined in the Code  |
| <b>Predictable Price Maker Generator Unit</b> | As defined in the Code  |
| <b>Predictable Price Taker Generator Unit</b> | As defined in the Code  |
| <b>Price Taker Generator Unit</b>             | As defined in the Code  |
| <b><u>Priority Flag</u></b>                   | <u>As defined in the Code</u>   |
| <b>Registered Capacity</b>                    | As defined in the Code  |
| <b>Regulatory Authorities</b>                 | As defined in the Code  |
| <b>Generic Settlement Class</b>               | As defined in the Code  |
| <b>Settlement Reallocation</b>                | As defined in the Code  |
| <b>Settlement Reallocation Data</b>           | Means the data that is submitted by Participants to   |

|   |  |
|---|--|
|   | the Market Operator providing details of the Settlement Reallocation Agreement   |
| <b>Settlement Report</b>                          | Means reports arising from Settlement  |
| <b>Standing Offer Data</b>                        | Is as defined in section <a href="#">2.6.3002-4.4</a>  |
| <b>Standing Offer Data Conversion</b>             | Means the process of converting Standing Offer Data to <a href="#">Trading</a> Offer Data at the opening of the Market Submission Window |
| <a href="#">Starting Gate Window Data</a>         | <a href="#">As defined in the Code</a>   |
| <a href="#">Submission Window</a>                 | <a href="#">A time period within which a Data Transaction may be submitted by a Participant</a>  |
| <b>Supplier</b>                                   | As defined in the Code   |
| <a href="#">System Data</a>                       | <a href="#">means the data stored in respect of a Party, Participant or Unit in the Market Operator's Isolated Market System.</a>        |
| <b>Technical Offer Data <a href="#">(TOD)</a></b> | As defined in the Code   |
| <a href="#">Trading Offer Data</a>                | <a href="#">Is as defined in section 002-4.4</a>   |
| <b>Trading Day</b>                                | As defined in the Code   |
| <b>Trading Period</b>                             | As defined in the Code   |
| <b>Trading Site</b>                               | As defined in the Code   |
| <b>Trading Site Data</b>                          | Means data relating to a Trading Site  |
| <b>Type 1 Channel</b>                             | As defined in the Code   |
| <b>Type 2 Channel</b>                             | As defined in the Code   |
| <b>Type 3 Channel</b>                             | As defined in the Code   |
| <b>Unit</b>                                       | As defined in the Code   |
| <b>Unit (Resource) Data</b>                       | Means data relating to a Unit  |
| <b>Unit Registration</b>                          | As defined in the Code   |
| <b>User</b>                                       | As defined in Agreed Procedure 1 "Participant Registration and Unit Registration and Deregistration"                                     |
| <b>Users Data</b>                                 | Means data relating to Participant User that has access to elements of the system  |
| <a href="#">Validation Technical Offer Data</a>   | <a href="#">As defined in the Code</a>   |

|  |  |
|--|--|
| <b><u>VTOD</u></b>                         |  |
| <b>Variable Price Maker Generator Unit</b> | As defined in the Code   |
| <b>Variable Price Taker Generator Unit</b> | As defined in the Code   |
| <b>Web Form</b>                            | Means a web page on the MPI which allows the Participant to enter data and submit the data to the Market Operator. |
| <b>Web Services</b>                        | Means the automated communication consisting of an XML-based programmatic interface                                |
| <b>Working Day</b>                         | As defined in the Code   |

#### ABBREVIATIONS

|                   |  |
|-------------------|--|
| <b>APTG</b>       | Autonomous Generator Unit              |
| <b>COD</b>        | Commercial Offer Data                  |
| <b><u>GWC</u></b> | Gate <u>Window</u> Closure             |
| <b>MO</b>         | Market Operator                        |
| <b>MPR</b>        | Market Participant Registration        |
| <b>PPMG</b>       | Predictable Price Maker Generator Unit |
| <b>PPTG</b>       | Predictable Price Taker Generator Unit |
| <b><u>RD</u></b>  | <u>Registration Data</u>               |
| <b>SEM</b>        | Single Electricity Market              |
| <b>SO</b>         | System Operators                       |
| <b>TD</b>         | Trading Day                            |
| <b>TOD</b>        | Technical Offer Data                   |
| <b>VPMG</b>       | Variable Price Maker Generator Unit    |
| <b>VPTG</b>       | Variable Price Taker Generator Unit    |



## BUSINESS DATA CONTAINED IN EACH ELEMENT

This appendix describes the business data contained in each category of data. Any additional information needed to build [associated messages for submission](#) is contained in the Interface Documentation Set. The data categories in Table 9 are as follows:

[the message is described in the Interface Documentation Set.](#)

- [Commercial Offer Data \(COD\)](#)
- [Registration Data \(RD\)](#)
- [Technical Offer Data \(TOD\)](#)
- [Validation Registration Data \(VRD\)](#)
- [Validation Technical Offer Data \(VTOD\)](#)

**Table 9: Business Data per Element**

| Class / Element        | Screen Name                                   | Comment   | Data Category |
|------------------------|---|---|---------------|
| MPR / Application Data | Name  | Corporate name of the Participant   | RD            |
|                        | Short Name or Participant Name                | Participant Short Name – will be used as the Participant Name in all Data Transactions  | RD            |
|                        | President Name                                | Person authorised to sign Framework Agreement   | RD            |
|                        | Effective Date                                | Effective Date (from) for the Participant   | RD            |
|                        | Expiry Date                                   | Expiry Date (to) for the Participant  | RD            |
|                        | Address 1                                     | Party Address   | RD            |
|                        | Address 2                                     | Party Address (following)   | RD            |
|                        | City  | Party City  | RD            |
|                        | County  | Party County  | RD            |
|                        | Postal Code                                   | Party Postal Code   | RD            |
|                        | Billing Address 1                             | Address to which all invoices for the Participant will be sent  | RD            |
|                        | Billing Address 2                             | Address to which all invoices for the Participant will be sent  | RD            |
|                        | Billing City                                  | City to which all invoices for the Participant will be sent   | RD            |
|                        | Billing County                                | County to which all invoices for the Participant will be sent   | RD            |
|                        | Billing Postal Code                           | Postal code to which invoices for the Participant will be sent  | RD            |
|                        | Country                                       | Party Country   | RD            |
|                        | Phone   | Party Phone   | RD            |
|                        | Fax   | Party Fax   | RD            |
|                        | Email   | Party Email   | RD            |
|                        | URL   | Party URL   | RD            |
|                        | Represent Party                               | Name of the Party represented by the registering Participant  | RD            |
|                        | VAT Jurisdiction                              | ROI or NI   | RD            |
|                        | VAT Number                                    | VAT number  | RD            |
|                        | VAT Status                                    | VAT Exempt (1) or Non-Exempt (0), for each jurisdiction   | RD            |
|                        | Notification Comment                          | Used by the Market Operator and Participant to exchange notes with respect to that registration data                                  | RD            |
|                        | e   | Was Previously a Participant? ('Y'/'N')   | RD            |
|                        | Old Market Participant Name                   | Old Business Associate ID   | RD            |
|                        | Old Market Participant Name Registration Date | Old Registration Date   | RD            |
|                        | Account Manager                               | Name of MO personnel who will manage the Participant's account  | RD            |
|                        | Market Participant Signatures of Agreement    | Tracking of Participant signatures on Framework Agreement to Trading and Settlement Code, Transmission Use of System Agreement (TUoS) | RD            |
|                        | Amount of Initial Credit Cover                | Amount of initial Credit Cover required at registration   | RD            |
|                        | Credit Cover Type                             | Type of Credit cover, whether Cash or Letter of Credit  | RD            |
|                        | Data Exchange Test                            | Will be P (Pass) or F (Fail), depending on whether Market Operator data exchange testing is successful                                | RD            |
|                        | Interconnector User                           | Yes or No   | RD            |
|                        | Participant Class                             | Type of Participant   | VRD           |

| Class / Element     | Screen Name                     | Comment  | Data Category |
|---------------------|---------------------------------|--|---------------|
| MPR / Users         | External ID                     | Optional text field that can be used to track submissions by Market Participants   |               |
|                     | Code Participant Name           | An identifier of the Participant, as registered in accordance with the Code  | RD            |
|                     | Login                           | Unique User Login ID   |               |
|                     | Name                            | Name of user within organisation (multiple users may be entered)   |               |
|                     | Address 1                       | User Address 1   |               |
|                     | Address 2                       | User Address 2   |               |
|                     | City                            | User City  |               |
|                     | County                          | User County  |               |
|                     | Postal Code                     | User Postal Code   |               |
|                     | Country                         | User Country   |               |
|                     | Phone                           | User Phone Number  |               |
|                     | Fax                             | User Fax Number  |               |
|                     | Email                           | User Email ID  |               |
|                     | Mobile                          | User Mobile Phone ID   |               |
|                     | Pager                           | User Pager ID  |               |
|                     | URL                             | User URL   |               |
|                     | Notification Comment            | Used by the operator and Participant to exchange notes with respect to that registration data.   |               |
|                     | Effective Date                  | User Effective Date  |               |
|                     | Expiry Date                     | User Expiration Date   |               |
|                     | Position                        | User Person Position   |               |
|                     | User Type                       | Selection of pre-defined roles with corresponding market system access information by functional area, including read-write, read-only, and administrative access, as required.  |               |
|                     | Data Exchange Test              | Will be P (Pass) or F (Fail), depending on whether Market Operator data exchange testing is successful.  |               |
|                     | Comments                        | Comments   |               |
|                     | External ID                     | Optional text field that can be used to track submissions by Market Participants   |               |
| MPR / Contacts Data | Name                            | Contact name for settlement related business or Primary contact for market scheduling related business or Contact name for financial business functions, including credit cover or Contact name for other functional areas |               |
|                     | Address 1                       | Contact address 1  |               |
|                     | Address 2                       | Contact address 2  |               |
|                     | City                            | Contact City   |               |
|                     | County                          | Contact County   |               |
|                     | Postal Code                     | Contact Postal Code  |               |
|                     | Country                         | Contact Country  |               |
|                     | Phone                           | Contact Phone number   |               |
|                     | Fax                             | Contact Fax number   |               |
|                     | Email                           | Contact Email  |               |
|                     | Mobile                          | Mobile Phone Number  |               |
|                     | Pager                           | Contact Pager Number   |               |
|                     | URL                             | Contact URL  |               |
|                     | Notification Comment            | Used by the operator and Participant to exchange notes with respect to that registration data.   |               |
|                     | Effective Date                  | Contact Effective Date   |               |
|                     | Expiry Date                     | Contact Expiry Date  |               |
|                     | Position                        | Contact Person Position  |               |
|                     | Contact Type                    | Type of Transaction Contact  |               |
|                     | Comments                        | Comments on contact  |               |
| 1                   | External ID                     | Optional text field that can be used to track submissions by Market Participants   |               |
| MPR / Bank Data     | Bank Name                       | Name of the bank for the Market Participant  | RD            |
|                     | Bank Number                     | Bank number for the Market Participant.  | RD            |
|                     | Bank Account Name               | Bank account name for the Market Participant.  | RD            |
|                     | Account Number                  | Bank account number for the Market Participant.  | RD            |
|                     | Bank Account Description        | Bank account description for the Market Participant.   | RD            |
|                     | Bank Branch Type                | Bank branch type for the Market Participant.   | RD            |
|                     | Bank Branch Name                | Bank branch name for the Market Participant  | RD            |
|                     | Bank Branch Number of Sort Code | Bank branch number for the Market Participant.   | RD            |
|                     | Bank Branch Description         | Bank branch description for the Market Participant.  | RD            |

| Class / Element            | Screen Name                                 | Comment   | Data Category |
|----------------------------|---|---|---------------|
|                            | Bank Branch Address line 1                  | Address field for the bank branch.  | RD            |
|                            | Bank Branch Address line 2                  | Further address field for the bank branch.  | RD            |
|                            | Bank Branch City                            | City in which the branch is located.  | RD            |
|                            | Bank Branch County                          | County in which the branch is located.  | RD            |
|                            | Bank Branch Postal Code                     | Postal code for the bank branch.  | RD            |
|                            | Bank Branch Country                         | Country in which the branch is located.   | RD            |
|                            | Bank Branch Phone                           | Phone number of the bank branch.  | RD            |
|                            | Bank Branch Fax                             | Fax number of the bank branch.  | RD            |
|                            | SWIFT BIC                                   | Swift BIC code.   | RD            |
|                            | IBAN  | International Bank Account Number.  | RD            |
|                            | Bank Account Currency Jurisdiction          | Bank Account Currency jurisdiction - should be ROI or NL. The Market Operator approval process will ensure that all jurisdiction references are the same.   | RD            |
|                            | Notification Comment                        | Used by the operator and Participant to exchanges notes with respect to that registration data.   |               |
|                            | Effective Date                              | Effective date for the bank details for the Market Participant.   | RD            |
|                            | Expiration Date                             | Expiry date for the bank details for the Market Participant.  | RD            |
|                            | External ID                                 | Optional text field that can be used to track submissions by Market Participants.   |               |
| MPR / Generator Parameters | Resource Type                               | Indicates the type of resource for which data is being submitted - for example this will indicate if a resource is predictable or variable and whether it is a price taker or price maker. Permitted values include: PRED_PR MAKER_GEN, PRED_PR_TAKER_GEN, VAR_PR MAKER_GEN, VAR_PR_TAKER_GEN, AUTO_PR_TAKER_GEN. | VRD           |
|                            | Resource Name                               | The name of the resource in question (e.g. the name of the Generator Unit, Supplier Unit, Demand Side Unit, Interconnector Unit or Interconnector for which data is being submitted).   | VRD           |
|                            | IM Resource Name                            | Reference ID to the unit's injection point to the transmission system referenced in the Connection Agreement.   | VRD           |
|                            | Connection Point                            | Identifier of the Unit connection point (provided by the Transmission System Operators).  | VRD           |
|                            | Connection Type                             | Will be "TRNS" if transmission system connected and "DIST" if distribution system connected.  | VRD           |
|                            | Connection Agreement                        | Reference ID to the unit's and/or Participant's connection agreement.   | VRD           |
|                            | Effective Date                              | Proposed date and time when Participant will become eligible to participate in the market.  | VRD           |
|                            | Expiry Date                                 | Expiry Date.  | VRD           |
|                            | Dual Rated Generator Unit Flag              | A flag Indicating that a Generator Unit is a Dual Rated Generator Unit.   |               |
|                            | Fuel Type                                   | May be Oil (OIL), Gas (GAS), Coal (COAL), Multiple Fuel (MULTI), Wind (WIND), Hydro (HYDRO), Biomass (BIO), Combined Heat and Power (CHP), Pumped Storage (PUMP) Demand Side Unit (DEM).  | VRD           |
|                            | Secondary Fuel Type                         | May be Oil (OIL), Gas (GAS), Coal (COAL), Multiple Fuel (MULTI), Wind (WIND), Hydro (HYDRO), Biomass (BIO), Combined Heat and Power (CHP), Pumped Storage (PUMP) Demand Side Unit (DEM).  | VRD           |
|                            | Minimum Stable Generation                   | Registered Minimum Stable Generation level in MW.   | VTOD          |
|                            | Maximum Generation                          | Maximum Generation level, in MW.  | VRD           |
|                            | Number of Hours elapsed for Cold Sync time. | This is not utilised in the systems. This can be left as NULL in the Data Transaction.  |               |
|                            | Number of Hours elapsed for Warm Sync time. | This is not utilised in the systems. This can be left as NULL in the Data Transaction.  |               |
|                            | Number of Hours elapsed for Hot Sync time.  | This is not utilised in the systems. This can be left as NULL in the Data Transaction.  |               |
|                            | Pumped Storage Flag                         | May be Y, N or NULL - it will only be Y if the Unit is a pumped storage unit.   | VRD           |
|                            | Energy Limit Flag                           | May be Y, N or NULL - it will only be Y if the Unit is a pumped storage unit.   | VRD           |
|                            | Netting Generator Flag                      | Only applicable to PPMG, PPTG, VPMG, VPTG, APTG. It is a Y/N/Null field. Null for supplier, demand and interconnector.  | VRD           |
|                            | Fixed Unit Load                             | Fixed linear factor used to calculate net output from a Generator Unit. Fixed Unit Load (FUL) ≥ 0   | VRD           |

| Class / Element | Screen Name  | Comment   | Data Category |
|-----------------|--|---|---------------|
|                 | Unit Load Scalar   | Scalar quantity which approximates physical losses associated with a Generator Unit Transformer. Unit Load Scalar (ULS). $0 < ULS \leq 1$ .   | VRD           |
|                 | Start-up End Point   | This is not utilised in the systems. This can be left as NULL in the Data Transaction   | VTOD          |
|                 | Droop  | In relation to the operation of the governor of a Generator Unit, the percentage drop in System Frequency which would cause the Generator Unit under free governor action to change its output from zero to Full Load. (in %)   | VRD           |
|                 | Number of Starts   | Number of Starts available before maintenance of the unit when $< 30$ starts. Note: this value will be provided by Participants as part of their technical offer data. There will be no requirement to consider it in the optimization runs.  | VRD           |
|                 | Number of Run Hours  | Number of run hours available for a unit before maintenance when $< 200$ hours. Note: this value will be provided by Participants as part of their technical offer data. There will be no requirement to consider it in the optimization runs.  | VRD           |
|                 | Minimum Reservoir Capacity   | For Pumped Storage. Minimum possible capacity for the reservoir (MWh). Reservoir levels must be the same for submissions from all Units Sharing the Reservoir. The value for the first unit by alphabetical order of the unit's name will be selected if the reservoir capacities differ. | VTOD          |
|                 | Maximum Reservoir Capacity   | For Pumped Storage. reservoir levels must be the same for submissions from all Units Sharing the Reservoir. The value for the first unit by alphabetical order of the unit's name will be selected if the reservoir capacities differ.  | VTOD          |
|                 | Modes of Operation   | This is not utilised in the systems. This can be left as NULL in the Data Transaction   | VRD           |
|                 | Identification of Unit location on grid                                    | Unique identifier of unit location. Multiple Unit IDs can exist for each Physical Location (e.g. Supplier Unit and Generator Unit).   | VRD           |
|                 | Physical Location ID   | Name of unit location on the transmission system.   | VRD           |
|                 | Name of station or site where unit is located (multiple units per station) | Name of station or site where unit is located (there can be multiple units per station).  | VRD           |
|                 | Identification of the Station  | Station ID defined by the Transmission System Operators.  | VRD           |
|                 | Station address line 1   | Station Address line 1.   | VRD           |
|                 | Station address line 2   | Station Address line 2.   | VRD           |
|                 | Registered Firm Capacity   | Total deep connected capacity designation for the unit.   | VRD           |
|                 | Non-Firm Access Quantity   | Non-firm capacity for a unit in MW, i.e. part of a Generator Unit's Availability that does not have Firm Access.  | VRD           |
|                 | Commission Test Certificate  | Acceptance of commission test for data and generation communication requirements.   | VRD           |
|                 | Old Resource Flag  | To indicate if this is an old resource whose ownership is being changed/ or is being re-registered.   | VRD           |
|                 | Old Resource Name  | In case of a previously registered resource, this is to provide its previous registered resource identification.  | VRD           |
|                 | Old Participant Name   | Participant ID of the previous Participant (if applicable). Can be left NULL if not relevant.   | VRD           |
|                 | Priority Dispatch Flag   | Indication of a Unit's priority in the physical market schedule if in a tie to serve marginal demand. Will be Y or N and will be set in conjunction with the Transmission System Operator(s).   | VRD           |
|                 | Unit Under Test Start Date   | Date when the Unit is proposed to be under test. This will be approved by the Market Operator in conjunction with the Transmission System Operator(s).  | VRD           |
|                 | Unit Under Test End Date   | Date when the Unit is proposed to complete its test. This will be approved by the Market Operator in conjunction with the Transmission System Operator(s).  | VRD           |
|                 | Qualified Communication Channel  | Indicator of the communication channels the unit has been qualified to utilise.   | VRD           |
|                 | Jurisdiction   | Jurisdiction for the resource - will be "ROI" or "NI"   | VRD           |
|                 | Notification Comment   | Used by the Market Operator and Participant to exchange notes with respect to that registration data.   |               |
|                 | Trading Site Name  | Name of the Trading Site to which the Generator Unit is associated.   |               |
|                 | Meter Registration ID  | Identifier for metering purposes.   |               |
|                 | Data Exchange Test   | Will be P (Pass) or F (Fail), depending on whether Market Operator data exchange testing is successful.   | VRD           |
|                 | EB Licence number  | Regulatory licence ID number for the Participant based on type of unit owned (e.g. Wind Generation, Demand-side, etc.).   | VRD           |

| Class / Element       | Screen Name                                    | Comment   | Data Category |
|-----------------------|--|---|---------------|
| MPR / Load Parameters | Electricity Commission License Effective Date  | Electricity Commission License Effective Date.  | VRD           |
|                       | Electricity Commission License Expiration Date | Electricity Commission License Expiration Date.   | VRD           |
|                       | External ID                                    | Optional text field that can be used to track submissions by Market Participants  |               |
|                       | Default Data Submission                        | This is a flag set by the Market Operator, and indicates whether Default Data has been submitted by the Market Participant for a Unit.  |               |
|                       | Resource Type                                  | Demand Side Unit (DU) or Supplier Unit (SU)   | VRD           |
|                       | Resource Name                                  | The name of the resource in question (e.g. the name of the Generator Unit, Supplier Unit, Demand Side Unit, Interconnector Unit or Interconnector for which data is being submitted). | VRD           |
|                       | IM Resource Name                               | Reference ID to the unit's injection point to the transmission system referenced in the Connection Agreement  |               |
|                       | Connection Point                               | Identifier of the Unit (provided by the system operators).  | VRD           |
|                       | Connection Type                                | Transmission or Distribution Connected.   | VRD           |
|                       | Connection Agreement                           | Reference ID to the unit's and/or Participant's connection agreement.   | VRD           |
|                       | Effective Date                                 | Effective Date for Load Data Submission   | VRD           |
|                       | Expiry Date                                    | Expiry Date for Load Data Submission  | VRD           |
|                       | Dispatchable Capacity                          | MW's available for curtailment.   | VRD           |
|                       | Non Dispatchable Capacity                      | Portion of total demand not available for curtailment.  | VRD           |
|                       | Fuel Type                                      | Type of Fuel  | VRD           |
|                       | Trading Site Supplier Flag                     | Trading Site Supplier Flag (Y/N)  |               |
|                       | Trading Site Name                              | Trading Site Identifier   |               |
|                       | Meter Registration ID                          | Identifier for metering purposes.   |               |
|                       | Unit Under Test Start Date                     | When applicable   |               |
|                       | Unit Under Test End Date                       | When applicable   | 2             |
| 3                     | Old Resource Flag                              | To indicate if this is an old resource whose ownership is being changed / or is being re-registered   | VRD           |
|                       | Old Resource Name                              | In case of a previously registered resource, this is to provide its previous registered resource identification.  | VRD           |
|                       | Old Participant Name                           | In case of a previously registered resource, this is to provide its previous registered Participant identification.   | VRD           |
|                       | Qualified Communication Channel                | Indicator of the communication channels the unit has been qualified to utilize.   | VRD           |
|                       | Jurisdiction                                   | ROI or NI.  | VRD           |
|                       | Notification Comment                           | Used by the operator and Participant to exchange notes with respect to that registration data.  |               |
|                       | Data Exchange Test                             | Will be P (Pass) or F (Fail), depending on whether Market Operator data exchange testing is successful.   | VRD           |
|                       | EB Licence number                              | Regulatory licence id number for the Participant based on type of unit owned (e.g. Wind Generation, Demand-side, etc.).   | VRD           |
|                       | Effective Date of EB Licence                   | Proposed date and time when Participant will become eligible to participate in the market.  | VRD           |
|                       | Expiry Date of EB Licence                      | Expiry Date of EB Licence   | VRD           |
|                       | Station ID                                     | Station ID created by the system operators.   | VRD           |
|                       | Station Address line 1                         | Address of Station for informational purposes.  | VRD           |
|                       | Station Address line 2                         | Address of Station for informational purposes. (following)  | VRD           |
|                       | External ID                                    | Optional text field that can be used to track submissions by Market Participants  |               |
|                       | Default Data Submission                        | This is a flag set by the Market Operator, and indicates whether Default Data has been submitted by the Market Participant for a Unit.  |               |
|                       | Application Type                               | Must be "DAM"   |               |
|                       | Trading Day                                    | Trading Day for which the data is submitted   |               |
|                       | Gate Window Identifier                         | Identifier of the Gate Window to which the data is being submitted  |               |
| MI / Generator Offer  | Participant Name                               | Name of the Participant   |               |
|                       | User Name                                      | User Name   |               |
|                       | Mode   | Must be NORMAL  |               |
|                       | Standing Data Flag                             | Flag indicating that the submission is of Standing Data   |               |
|                       | Version Number                                 | Must be 1.0   |               |
|                       | Resource Name                                  | Must be a valid Resource Name   |               |

| Class / Element                     | Screen Name                        | Comment  | Data Category |
|-------------------------------------|------------------------------------|--|---------------|
|                                     | Resource Type                      | Must be a valid Unit Classification.   |               |
|                                     | Expiry Date                        | Must be a valid date in the future.  |               |
|                                     | Standing Day Type                  | Must be a valid Day Type Parameter value.  |               |
|                                     | External Identifier                | Optional text field that can be used to track submissions by Market Participants. This can be non-unique and cannot be queried (although will be returned in responses if successful). |               |
|                                     | Start Hour                         | Used to identify data submitted on a Trading Period basis, in conjunction with End Hour, Start Interval and End Interval.  |               |
|                                     | End Hour                           | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, Start Interval and End Interval.  |               |
|                                     | Start Interval                     | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, End Hour and End Interval.  |               |
|                                     | End Interval                       | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, End Hour and Start Interval.  |               |
|                                     | Forecast Maximum Availability      | As submitted by Generator Units for each Trading Day.  | TOD           |
|                                     | Forecast Minimum Stable Generation | As submitted by Generator Units for each Trading Day.  | TOD           |
|                                     | Forecast Minimum Output            | As submitted by Generator Units for each Trading Day.  | TOD           |
|                                     | Target Reservoir Level             | For Pumped Storage Units only.   | COD           |
|                                     | Target Reservoir Level Percentage  | For Pumped Storage Units only.   | VTOD          |
|                                     | Prior Day End Reservoir Level      | For Pumped Storage Units only, not utilised in the Central Market Systems.   |               |
|                                     | Operational Reservoir Capacity     | For Pumped Storage Units only, not utilised in the Central Market Systems.   |               |
|                                     | Spin Generation Cost               | For Pumped Storage Units only, is the cost of running in spinning mode. Used only operationally.   |               |
|                                     | Spin Pump Cost                     | For Pumped Storage Units only, is the cost of running in pumping mode. Used only operationally.  |               |
|                                     | Minimum Generation Cost            | For Pumped Storage Units only, is the cost of running at minimum generation level. Used only operationally.  |               |
|                                     | Energy Limit                       | For Energy Limited Units only, is the Energy Limit for the Trading Day.  | TOD           |
|                                     | Energy Limit Factor                | For Energy Limited Units only, is the proportion of the Energy Limit that applies within the Ending Overlap Optimisation Period.   | TOD           |
|                                     | Energy Limit Period Flag           | For Energy Limited Units only, relating to the start and end of the Energy Limit Period.   | TOD           |
|                                     | Price Quantity Curve - Price       | Submitted as part of Commercial Offer Data in accordance with Appendix I.  | COD           |
|                                     | Price Quantity Curve - Quantity    | Submitted as part of Commercial Offer Data in accordance with Appendix I.  | COD           |
|                                     | Start Up Cost Hot                  | Submitted as part of Commercial Offer Data in accordance with Appendix I.  | COD           |
|                                     | Start Up Cost Warm                 | Submitted as part of Commercial Offer Data in accordance with Appendix I.  | COD           |
|                                     | Start Up Cost Cold                 | Submitted as part of Commercial Offer Data in accordance with Appendix I.  | COD           |
|                                     | No Load Cost                       | Submitted as part of Commercial Offer Data in accordance with Appendix I.  | COD           |
|                                     | Nomination Profile                 | Submitted by each Predictable Price Taker Generator Unit, Variable Price Taker Generator Unit or Unit Under Test.  | COD           |
|                                     | Decremental Price                  | Submitted by each Predictable Price Taker Generator Unit, Variable Price Taker Generator Unit or Unit Under Test.  | COD           |
| MI / Generator Technical Offer Data | Resource Name                      | Must be a valid Resource Name.   | VTOD          |
|                                     | Resource Type                      | Must be a valid Unit Classification.   | VTOD          |
|                                     | Validation Data Set Number         | Numerical identifier associated with a Validation Data Set.  |               |
|                                     | External Identifier                | Optional text field that can be used to track submissions by Market Participants. This can be non-unique and cannot be queried (although will be returned in responses if successful). |               |
|                                     | Block Load Flag                    | Will be "Yes" or "No", depending on whether the Unit has block loading characteristics.  | VTOD          |
|                                     | Block Load Cold                    | Block Load in MW when the unit is in a cold state.   | VTOD          |
|                                     | Block Load Warm                    | Block Load in MW when the unit is in a warm state.   | VTOD          |
|                                     | Block Load Hot                     | Block Load in MW when the unit is in a hot state.  | VTOD          |
|                                     | Deloading Rate 1                   | e  | VTOD          |

| Class / Element | Screen Name                                  | Comment   | Data Category        |
|-----------------|--|---|----------------------|
|                 | <a href="#">Deloading Rate 2</a>             | Deloading Rate in MW/min that applies for a Unit below Minimum Stable Generation beyond DELOAD_BREAK_PT.  | <a href="#">VTOD</a> |
|                 | <a href="#">Deload Break Point</a>           | MW level from which the deloading rate will change from DELOADING_RATE_1 to DELOADING_RATE_2.   | <a href="#">VTOD</a> |
|                 | <a href="#">Minimum Time Sync Cold</a>       | This is not utilised in the systems. This can be left as NULL in the Data Transaction.  | <a href="#">VTOD</a> |
|                 | <a href="#">Minimum Time Sync Warm</a>       | The duration in hours off load that indicates the standby status change of the unit from Warm to Cold.  | <a href="#">VTOD</a> |
|                 | <a href="#">Minimum Time Sync Hot</a>        | The duration in hours off load that indicates the standby status change of the unit from Hot to Warm.   | <a href="#">VTOD</a> |
|                 | <a href="#">Start-Up Time Cold</a>           | Notification/Start-up times in hours for a unit considered to be in a cold state.   | <a href="#">VTOD</a> |
|                 | <a href="#">Start-Up Time warm</a>           | Notification/Start-up times in hours for a unit considered to be in a warm state.   | <a href="#">VTOD</a> |
|                 | <a href="#">Start-Up Time Hot</a>            | Notification/Start-up times in hours for a unit considered to be in a hot state.  | <a href="#">VTOD</a> |
|                 | <a href="#">Dwell Time 1</a>                 | Time above Minimum Stable Generation for which a Unit remains at a constant MW level before continuing to increase or decrease output.  | <a href="#">VTOD</a> |
|                 | <a href="#">Dwell Time 2</a>                 | Time above Minimum Stable Generation for which a Unit remains at a constant MW level before continuing to increase or decrease output.  | <a href="#">VTOD</a> |
|                 | <a href="#">Dwell Time 3</a>                 | Time above Minimum Stable Generation for which a Unit remains at a constant MW level before continuing to increase or decrease output.  | <a href="#">VTOD</a> |
|                 | <a href="#">Dwell Time Trigger Point 1</a>   | MW level at which DWELL_TIMES_1 should be observed before output can further increase or decrease.  | <a href="#">VTOD</a> |
|                 | <a href="#">Dwell Time Trigger Point 2</a>   | MW level at which DWELL_TIMES_2 should be observed before output can further increase or decrease.  | <a href="#">VTOD</a> |
|                 | <a href="#">Dwell Time Trigger Point 3</a>   | MW level at which DWELL_TIMES_3 should be observed before output can further increase or decrease.  | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Rate Cold 1</a>          | Loading Up Rate in MW/min when a Unit is in a cold state that applies until LOADING_UP_BREAK_PT_COLD_1.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Rate Cold 2</a>          | Loading Up Rate in MW/min when a Unit is in a cold state that applies from LOADING_UP_BREAK_PT_COLD_1 to LOADING_UP_BREAK_PT_COLD_2.  | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Rate Cold 3</a>          | Loading Up Rate in MW/min when a Unit is in a cold state that applies above LOADING_UP_BREAK_PT_COLD_2.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Rate Warm 1</a>          | Loading Up Rate in MW/min when a Unit is in a warm state that applies until LOADING_UP_BREAK_PT_WARM_1.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Rate Warm 2</a>          | Loading Up Rate in MW/min when a Unit is in a warm state that applies from LOADING_UP_BREAK_PT_WARM_1 to LOADING_UP_BREAK_PT_WARM_2.  | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Rate Warm 3</a>          | Loading Up Rate in MW/min when a Unit is in a warm state that applies above LOADING_UP_BREAK_PT_WARM_2.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Rate Hot 1</a>           | Loading Up Rate in MW/min when a Unit is in a hot state that applies until LOADING_UP_BREAK_PT_HOT_1.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Rate Hot 2</a>           | Loading Up Rate in MW/min when a Unit is in a hot state that applies from LOADING_UP_BREAK_PT_HOT_1 to LOADING_UP_BREAK_PT_HOT_2.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Rate Hot 3</a>           | Loading Up Rate in MW/min when a Unit is in a hot state that applies above LOADING_UP_BREAK_PT_HOT_2.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Up Breakpoint Cold 1</a> | MW level from which the cold loading up rate will change from Loading Rate 1 to Loading Rate 2.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Up Breakpoint Cold 2</a> | MW level from which the cold loading up rate will change from Loading Rate 2 to Loading Rate 3.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Up Breakpoint Warm 1</a> | MW level from which the warm loading up rate will change from Loading Rate 1 to Loading Rate 2.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Up Breakpoint Warm 2</a> | MW level from which the warm loading up rate will change from Loading Rate 2 to Loading Rate 3.   | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Up Breakpoint Hot 1</a>  | MW level from which the hot loading up rate will change from Loading Rate 1 to Loading Rate 2.  | <a href="#">VTOD</a> |
|                 | <a href="#">Loading Up Breakpoint Hot 2</a>  | MW level from which the hot loading up rate will change from Loading Rate 2 to Loading Rate 3.  | <a href="#">VTOD</a> |
|                 | <a href="#">Minimum On-time</a>              | The minimum time that must elapse from the time a Generator Unit Starts-Up before it can be Shut-Down.  | <a href="#">VTOD</a> |
|                 | <a href="#">Maximum On-time</a>              | The maximum time that must elapse from the time a Generator Unit Starts-Up before it can be Shut-Down.  | <a href="#">VTOD</a> |
|                 | <a href="#">Minimum Off-time</a>             | The minimum time that a Generator Unit must remain producing no Active Power or Reactive Power commencing at the time when it stops producing Active Power or Reactive Power. | <a href="#">VTOD</a> |

| Class / Element | Screen Name                                     | Comment   | Data Category        |
|-----------------|---|---|----------------------|
|                 | <a href="#">Pumped Storage Cycle Efficiency</a> | (PSCEff) The ratio between the gross electrical energy consumed to pump a given quantity of water from the lower reservoir to the upper reservoir and the net electrical energy sent out through the release of that quantity of water from the upper reservoir | <a href="#">VTOD</a> |
|                 | <a href="#">Pumping Load Capacity</a>           | For Pumped Storage, the load consumed by unit during pumping phase (MW)   | <a href="#">VTOD</a> |
|                 | <a href="#">Max Ramp Up Rate</a>                | Rate of load increase, Rate of decreasing demand (MW/min)   | <a href="#">VTOD</a> |
|                 | <a href="#">Max Ramp Down Rate</a>              | Rate of load reduction, Rate of increasing demand (MW/min)  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Up Rate 1</a>                  | Ramp Up Rate in MW/min that applies until RAMP_UP_BREAK_PT_1  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Up Rate 2</a>                  | Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_1 until RAMP_UP_BREAK_PT_2  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Up Rate 3</a>                  | Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_2 until RAMP_UP_BREAK_PT_3  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Up Rate 4</a>                  | Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_3 until RAMP_UP_BREAK_PT_4  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Up Rate 5</a>                  | Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_4 until RAMP_UP_BREAK_PT_5  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Up Breakpoint 1</a>            | MW level from which the ramp rate will change from Ramp Rate 1 to Ramp Rate 2   | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Up Breakpoint 2</a>            | MW level from which the ramp rate will change from Ramp Rate 2 to Ramp Rate 3   | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Up Breakpoint 3</a>            | MW level from which the ramp rate will change from Ramp Rate 3 to Ramp Rate 4   | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Up Breakpoint 4</a>            | MW level from which the ramp rate will change to Ramp Rate 5  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Down Rate 1</a>                | Ramp Down Rate in MW/min that applies until RAMP_DOWN_BREAK_PT_1  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Down Rate 2</a>                | Ramp Down Rate in MW/min that applies from RAMP_DOWN_BREAK_PT_1 until RAMP_DOWN_BREAK_PT_2  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Down Rate 3</a>                | Ramp Down Rate in MW/min that applies from RAMP_DOWN_BREAK_PT_2 until RAMP_DOWN_BREAK_PT_3  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Down Rate 4</a>                | Ramp Down Rate in MW/min that applies from RAMP_DOWN_BREAK_PT_3 until RAMP_DOWN_BREAK_PT_4  | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Down Rate 5</a>                | Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_5   | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Down Breakpoint 1</a>          | MW level from which the ramp rate will change from Ramp Rate 1 to Ramp Rate 2   | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Down Breakpoint 2</a>          | MW level from which the ramp rate will change from Ramp Rate 2 to Ramp Rate 3   | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Down Breakpoint 3</a>          | MW level from which the ramp rate will change from Ramp Rate 3 to Ramp Rate 4   | <a href="#">VTOD</a> |
|                 | <a href="#">Ramp Down Breakpoint 4</a>          | MW level from which the ramp rate will change to Ramp Down Rate 5   | <a href="#">VTOD</a> |
|                 | <a href="#">Start Forbidden Range 1</a>         | MW level where restricted loading range (1) starts. Unit must move through this range as quickly as possible  | <a href="#">VTOD</a> |
|                 | <a href="#">End Forbidden Range 1</a>           | MW level where restricted loading range (1) ends. Unit must move through this range as quickly as possible  | <a href="#">VTOD</a> |
|                 | <a href="#">Start Forbidden Range 2</a>         | MW level where restricted loading range (2) starts. Unit must move through this range as quickly as possible  | <a href="#">VTOD</a> |
|                 | <a href="#">End Forbidden Range 2</a>           | MW level where restricted loading range (2) ends. Unit must move through this range as quickly as possible  | <a href="#">VTOD</a> |
|                 | <a href="#">Soak Time Hot 1</a>                 | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a hot state before continuing to increase or decrease output   | <a href="#">VTOD</a> |
|                 | <a href="#">Soak Time Hot 2</a>                 | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a hot state before continuing to increase or decrease output   | <a href="#">VTOD</a> |
|                 | <a href="#">Soak Time Warm 1</a>                | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a warm state before continuing to increase or decrease output  | <a href="#">VTOD</a> |
|                 | <a href="#">Soak Time Warm 2</a>                | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a warm state before continuing to increase or decrease output  | <a href="#">VTOD</a> |
|                 | <a href="#">Soak Time Cold 1</a>                | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a cold state before continuing to increase or decrease output  | <a href="#">VTOD</a> |
|                 | <a href="#">Soak Time Cold 2</a>                | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a cold state before continuing to increase or decrease output  | <a href="#">VTOD</a> |
|                 | <a href="#">Trigger Point Hot 1</a>             | MW level at which TRIGGER_PT_HOT_1 should be observed before output can further increase or decrease  | <a href="#">VTOD</a> |



| Class / Element                  | Screen Name                                   | Comment  | Data Category |
|----------------------------------|---|--|---------------|
|                                  | Trigger Point Hot 2                           | MW level at which TRIGGER_PT_HOT_2 should be observed before output can further increase or decrease.  | VTOD          |
|                                  | Trigger Point Warm 1                          | MW level at which TRIGGER_PT_WARM_1 should be observed before output can further increase or decrease.   | VTOD          |
|                                  | Trigger Point Warm 2                          | MW level at which TRIGGER_PT_WARM_2 should be observed before output can further increase or decrease.   | VTOD          |
|                                  | Trigger Point Cold 1                          | MW level at which TRIGGER_PT_COLD_1 should be observed before output can further increase or decrease.   | VTOD          |
|                                  | Trigger Point Cold 2                          | MW level at which TRIGGER_PT_COLD_2 should be observed before output can further increase or decrease.   | VTOD          |
|                                  | Short Term Maximisation Capacity above MAXGEN | Capacity above MAXGEN that can be sustained for a finite period of time (MW).  | VTOD          |
|                                  | Short Term Maximisation time                  | The duration in hours representing the length of time that Short-Term Maximisation can be sustained.   | VTOD          |
|                                  | Minimum Down Time                             | Minimum amount of time the demand-side unit can be curtailed.(in Hours)  | VTOD          |
|                                  | Maximum Down Time                             | Maximum amount of time the demand-side unit can be curtailed.(in Hours)  | VTOD          |
|                                  |   |  |               |
| MI / Demand Offer                | Application Type                              | Must be "DAM"  |               |
|                                  | Trading Day                                   | Trading Day for which the data is submitted.   |               |
|                                  | Gate Window Identifier                        | Identifier of the Gate Window to which the data is being submitted   |               |
|                                  | Participant Name                              | Name of the Participant.   |               |
|                                  | User Name                                     | User Name.   |               |
|                                  | Mode  | Must be NORMAL   |               |
|                                  | Standing Data Flag                            | Flag indicating that the submission is of Standing Data  |               |
|                                  | Version Number                                | Must be 1.0  |               |
|                                  | Resource Name                                 | Must be a valid Resource Name  |               |
|                                  | Resource Type                                 | Must be a valid Unit Classification.   |               |
|                                  | Expiry Date                                   | Must be a valid date in the future.  |               |
|                                  | Standing Day Type                             | Must be a valid Day Type Parameter value.  |               |
|                                  | External Identifier                           | Optional text field that can be used to track submissions by Market Participants. This can be non-unique and cannot be queried (although will be returned in responses if successful). |               |
|                                  | Start Hour                                    | Used to identify data submitted on a Trading Period basis, in conjunction with End Hour, Start Interval and End Interval.  |               |
|                                  | End Hour                                      | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, Start Interval and End Interval.  |               |
|                                  | Start Interval                                | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, End Hour and End Interval.  |               |
|                                  | End Interval                                  | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, End Hour and Start Interval.  |               |
|                                  | Forecast Maximum Availability                 | As submitted by Generator Units for each Trading Day.  | TOD           |
|                                  | Forecast Minimum Stable Generation            | As submitted by Generator Units for each Trading Day.  | TOD           |
|                                  | Forecast Minimum Output                       | As submitted by Generator Units for each Trading Day.  | TOD           |
|                                  | Price Quantity Curve - Price                  | Submitted as part of Commercial Offer Data in accordance with Appendix I.  | COD           |
|                                  | Price Quantity Curve - Quantity               | Submitted as part of Commercial Offer Data in accordance with Appendix I.  | COD           |
|                                  | Shut Down Cost                                | Submitted as part of Commercial Offer Data in accordance with Appendix I.  | COD           |
|                                  | Nomination Profile                            | Submitted by each Predictable Price Taker Generator Unit, Variable Price Taker Generator Unit or Unit Under Test.  | COD           |
|                                  | Decremental Price                             | Submitted by each Predictable Price Taker Generator Unit, Variable Price Taker Generator Unit or Unit Under Test.  | COD           |
|                                  |   |  |               |
| MI / Demand Technical Offer Data | Resource Name                                 | Must be a valid Resource Name  | VTOD          |
|                                  | Resource Type                                 | Must be a valid Unit Classification.   | VTOD          |
|                                  | Validation Data Set Number                    | Numerical identifier associated with a Validation Data Set   |               |
|                                  | External Identifier                           | Optional text field that can be used to track submissions by Market Participants. This can be non-unique and cannot be queried (although will be returned in responses if successful). |               |
|                                  | Max Ramp Up Rate                              | Rate of load increase, Rate of decreasing demand (MW/min).   | VTOD          |
|                                  | Max Ramp Down Rate                            | Rate of load reduction, Rate of increasing demand (MW/min).  | VTOD          |

| Class / Element                             | Screen Name                | Comment  | Data Category |
|---|----------------------------|--|---------------|
| MI / Validation Technical Offer Data Choice | Minimum Down Time          | Minimum amount of time the Demand Side Unit can be curtailed.(in Hours)  | VTOD          |
|   | Maximum Down Time          | Maximum amount of time the Demand Side Unit can be curtailed.(in Hours)  | VTOD          |
|   | Application Type           | Must be "DAM"  |               |
|   | Trading Day                | Trading Day for which the data is submitted.   |               |
|   | Gate Window Identifier     | Identifier of the Gate Window to which the data is being submitted   |               |
|   | Participant Name           | Name of the Participant.   |               |
|   | User Name                  | User Name.   |               |
|   | Mode                       | Must be NORMAL   |               |
|   | Resource Name              | Must be a valid Resource Name  |               |
|   | Resource Type              | Must be a valid Unit Classification.   |               |
|   | Validation Data Set Number | Numerical identifier associated with a Validation Data Set   |               |
|   | Version Number             | Must be 1.0  |               |
| MI / Settlement Reallocation                | External Identifier        | Optional text field that can be used to track submissions by Market Participants. This can be non-unique and cannot be queried (although will be returned in responses if successful). |               |
|   | Application Type           | Must be "DAM"  |               |
|   | Trading Day                | Trading Day for which the data is submitted.   |               |
|   | Participant Name           | Name of the Participant.   |               |
|   | User Name                  | User Name.   |               |
|   | Mode                       | Must be NORMAL   |               |
|   | Standing Data Flag         | Flag indicating that the submission is of Standing Data  |               |
|   | Version Number             | Must be 1.0  |               |
|   | Credited Participant Name  | Must be a valid Participant.   |               |
|   | Reallocation Type          | Must be Energy or Capacity   |               |
|   | External Identifier        | Optional text field that can be used to track submissions by Market Participants. This can be non-unique and cannot be queried (although will be returned in responses if successful). |               |
|   | Start Hour                 | Used to identify data submitted on a Trading Period basis, in conjunction with End Hour, Start Interval and End Interval.  |               |
|   | End Hour                   | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, Start Interval and End Interval.  |               |
|   | Start Interval             | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, End Hour and End Interval.  |               |
|   | End Interval               | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, End Hour and Start Interval.  |               |
|   | Agreement Name             | A name for the SRA as provided by a Participant.   |               |
|   | Monetary Value             | Value of the Settlement Reallocation Agreement.  |               |
| MI / Interconnector Offer                   | Application Type           | Must be "DAM"  |               |
|   | Trading Day                | Trading Day for which the data is submitted.   |               |
|   | Gate Window Identifier     | Identifier of the Gate Window to which the data is being submitted   |               |
|   | Participant Name           | Name of the Participant.   |               |
|   | User Name                  | User Name.   |               |
|   | Mode                       | Must be NORMAL   |               |
|   | Standing Data Flag         | Flag indicating that the submission is of Standing Data  |               |
|   | Version Number             | Must be 1.0  |               |
|   | Resource Name              | Must be a valid Interconnector   |               |
|   | Resource Type              | Must be a valid Unit Classification.   |               |
|   | Expiry Date                | Must be a valid date in the future.  |               |
|   | Standing Day Type          | Must be a valid Day Type Parameter value.  |               |
|   | External Identifier        | Optional text field that can be used to track submissions by Market Participants. This can be non-unique and cannot be queried (although will be returned in responses if successful). |               |
|   | Start Hour                 | Used to identify data submitted on a Trading Period basis, in conjunction with End Hour, Start Interval and End Interval.  |               |
|   | End Hour                   | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, Start Interval and End Interval.  |               |
|   | Start Interval             | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, End Hour and End Interval.  |               |
|   | End Interval               | Used to identify data submitted on a Trading Period basis, in conjunction with Start Hour, End Hour and Start Interval.  |               |

| Class / Element | Screen Name                                 | Comment   | Data Category |
|-----------------|---|---|---------------|
|                 | Maximum Interconnector Unit Import Capacity | Submitted as part of Commercial Offer Data in accordance with Appendix I. | COD           |
|                 | Maximum Interconnector Unit Export Capacity | Submitted as part of Commercial Offer Data in accordance with Appendix I. | COD           |
|                 | Price Quantity Curve - Price                | Submitted as part of Commercial Offer Data in accordance with Appendix I. | COD           |
|                 | Price Quantity Curve - Quantity             | Submitted as part of Commercial Offer Data in accordance with Appendix I. | COD           |
|                 | Priority Flag                               | Submitted as part of Commercial Offer Data in accordance with Appendix I. | COD           |

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## APPLICATION DATA

| APPLICATION DATA               |  |                      |
|--------------------------------|--|----------------------|
| Screen Name                    | Comment  | Mandatory / Optional |
| Name                           | Corporate name of the Participant.   | Mandatory            |
| Short Name or Participant Name | Participant Short Name – will be used as the Participant Name in all Data Transactions | Mandatory            |
| President Name                 | Person authorised to sign Framework Agreement  | Mandatory            |
| Effective Date                 | Effective Date (from) for the Participant  | Mandatory            |
| Expiry Date                    | Expiry Date (to) for the Participant   | Optional             |
| Address 1                      | Party Address  | Mandatory            |
| Address 2                      | Party Address (following)  | Optional             |
| City                           | Party City   | Mandatory            |
| County                         | Party County   | Mandatory            |
| Postal Code                    | Party Postal Code  | Mandatory            |
| Billing Address 1              | Address to which all invoices for the Participant will be sent.                        | Optional             |
| Billing Address 2              | Address to which all invoices for the Participant will be sent.                        | Optional             |
| Billing City                   | City to which all invoices for the Participant will be sent.                           | Optional             |
| Billing County                 | County to which all invoices for the Participant will be sent.                         | Optional             |
| Billing Code Postal            | Postal code to which all invoices for the Participant will be sent.                    | Optional             |
| Country                        | Party Country  | Mandatory            |
| Phone                          | Party Phone  | Mandatory            |
| Fax                            | Party Fax  | Mandatory            |
| email                          | Party Email  | Mandatory            |
| URL                            | Party URL  | Optional             |
| Represent Party                | Name of the Party that is represented by the registering                               | Optional             |

| APPLICATION DATA                              |   |                         |
|---|---|-------------------------|
| Screen Name                                   | Comment   | Mandatory / Optional    |
|   | Participant   |                         |
| VAT Jurisdiction                              | ROI or NI   | Mandatory               |
| VAT number                                    | VAT number  | Mandatory               |
| VAT Status                                    | VAT Exempt (1) or Non-Exempt (0), for each jurisdiction   | Mandatory               |
| Notification Comment                          | Used by the Market Operator and Participant to exchange notes with respect to that registration data                                  | Optional                |
| Was Participant flag                          | Was Previously a Participant? (Y/N)   | Optional                |
| Old Market Participant Name                   | Old Business Associate ID (in the previous)   | Optional                |
| Old Market Participant Name Registration Date | Old Registration Date   | Optional                |
| Account Manager                               | Name of MO personnel who will manage the Participant's account  | Mandatory               |
| Market Participant Signatures of Agreement    | Tracking of Participant signatures on Framework Agreement to Trading and settlement Code, Transmission Use of System Agreement (TUoS) | Mandatory               |
| Amount of Initial Credit Cover                | Amount of initial credit cover required at registration   | Optional                |
| Credit cover Type                             | Type of Credit cover, whether Cash or Letter of Credit  | Mandatory               |
| Data Exchange Test                            | Will be P (Pass) or F (Fail), depending on whether Market Operator data exchange testing is successful                                | Optional but do not use |
| Potential Interconnection User                | Yes or No   | Optional                |
| Participant Class                             | Type of Participant   | Mandatory               |
| External ID                                   | Optional text field that can be used to track submissions by Market Participants  | Optional                |

### CONTACTS DATA

| CONTACTS DATA |  |                      |
|---------------|--|----------------------|
| Screen Name   | Comment  | Mandatory / Optional |
| Name          | Contact name for settlement related business or Primary contact for market scheduling related business or Contact name for financial business functions, including credit cover or Contact name for other functional areas | Mandatory            |
| Address 1     | Contact address 1  | Mandatory            |
| Address 2     | Contact address 2  | Optional             |
| City          | Contact City   | Mandatory            |
| County        | Contact County   | Mandatory            |

| CONTACTS DATA        |  |                      |
|----------------------|--|----------------------|
| Screen Name          | Comment  | Mandatory / Optional |
| Postal Code          | Contact Postal Code  | Mandatory            |
| Country              | Contact Country  | Mandatory            |
| Phone                | Contact Phone number   | Mandatory            |
| Fax                  | Contact Fax number   | Mandatory            |
| email                | Contact Email  | Mandatory            |
| mobile               | Mobile Phone Number  | Mandatory            |
| Pager                | Contact Pager Number   | Mandatory            |
| URL                  | Contact URL  | Optional             |
| Notification Comment | Used by the operator and Participant to exchange notes with respect to that registration data. | Optional             |
| Effective Date       | Contact Effective Date   | Mandatory            |
| Expiry Date          | Contact Expiry Date  | Optional             |
| Position             | Contact Person Position  | Mandatory            |
| Contact Type         | Type of Transaction Contact  | Mandatory            |
| Comments             | Comments on contact  | Optional             |
| External ID          | Optional text field that can be used to track submissions by Market Participants               | Optional             |

## USERS DATA

| USERS DATA  |  |                      |
|-------------|--|----------------------|
| Screen Name | Comment  | Mandatory / Optional |
| Login       | Unique User Login ID   | Mandatory            |
| Name        | Name of user within organisation (multiple users may be entered) | Mandatory            |
| Address 1   | User Address 1   | Mandatory            |
| Address 2   | User Address 2   | Optional             |
| City        | User City  | Mandatory            |
| County      | User County  | Mandatory            |
| Postal Code | User Postal Code   | Mandatory            |
| Country     | User Country   | Mandatory            |
| Phone       | User Phone Number  | Mandatory            |
| Fax         | User Fax Number  | Mandatory            |

| USERS DATA           |   |                         |
|----------------------|---|-------------------------|
| Screen Name          | Comment   | Mandatory / Optional    |
| email                | User Email ID   | Mandatory               |
| mobile               | User Mobile Phone ID  | Mandatory               |
| Pager                | User Pager ID   | Mandatory               |
| URL                  | User URL  | Optional                |
| Notification Comment | Used by the operator and Participant to exchange notes with respect to that registration data.  | Optional                |
| Effective date       | User Effective Date   | Mandatory               |
| Expiry date          | User Expiration Date  | Optional                |
| Position             | User Person Position  | Mandatory               |
| User type            | Selection of pre-defined roles with corresponding market system access information by functional area, including read-write, read-only, and administrative access, as required. | Mandatory               |
| Data Exchange Test   | Will be P (Pass) or F (Fail), depending on whether Market Operator data exchange testing is successful.   | Optional but do not use |
| Comments             | Comments  | Optional                |
| External ID          | Optional text field that can be used to track submissions by Market Participants.   | Optional                |

## BANK DATA

| BANK DATA                       |  |                      |
|---------------------------------|--|----------------------|
| Screen / T&SC Name              | Comment  | Mandatory / Optional |
| Bank Name                       | Name of the bank for the Market Participant.         | Mandatory            |
| Bank Number                     | Bank number for the Market Participant.              | Mandatory            |
| Bank Account Name               | Bank account name for the Market Participant.        | Mandatory            |
| Account Number                  | Bank account number for the Market Participant.      | Mandatory            |
| Bank Account Description        | Bank account description for the Market Participant. | Mandatory            |
| Bank Branch Type                | Bank branch type for the Market Participant.         | Mandatory            |
| Bank Branch Name                | Bank branch name for the Market Participant.         | Mandatory            |
| Bank Branch Number or Sort Code | Bank branch number for the Market Participant.       | Mandatory            |
| Bank Branch Description         | Bank branch description for the Market Participant.  | Optional             |
| Bank Branch Address line 1      | Address field for the bank branch.                   | Optional             |
| Bank Branch Address line 2      | Further address field for the bank branch.           | Optional             |

| BANK DATA                          |  |                      |
|------------------------------------|--|----------------------|
| Screen / T&SC Name                 | Comment  | Mandatory / Optional |
| Bank Branch City                   | City in which the branch is located.   | Optional             |
| Bank Branch County                 | County in which the branch is located.   | Optional             |
| Bank Branch Postal Code            | Postal code for the bank branch.   | Optional             |
| Bank Branch Country                | Country in which the branch is located.  | Optional             |
| Bank Branch Phone                  | Phone number of the bank branch.   | Optional             |
| Bank Branch Fax                    | Fax number of the bank branch.   | Optional             |
| SWIFT BIC                          | Swift BIC code   | Mandatory            |
| IBAN                               | International Bank Account Number  | Mandatory            |
| Bank Account Currency jurisdiction | Bank Account Currency jurisdiction – should be ROI or NI. The Market Operator approval process will ensure that all jurisdiction references (AD-22, BD-20, GP-123 and LP-24) are the same. | Optional             |
| Notification Comment               | Used by the operator and Participant to exchanges notes with respect to that registration data   | Optional             |
| External ID                        | Optional text field that can be used to track submissions by Market Participants.  | Optional             |
| Effective Start Date               | Effective date for the bank details for the Market Participant.  | Mandatory            |
| Expiration Date                    | Expiry date for the bank details for the Market Participant.   | Optional             |

## UNIT (RESOURCE) DATA

### Generator parameters

| UNIT (RESOURCE) DATA – Generator parameters |   |                                   |                                   |
|---|---|-----------------------------------|-----------------------------------|
| Screen Name                                 | Comment   | Type 2<br>Mandatory /<br>Optional | Type 3<br>Mandatory /<br>Optional |
| Resource Type                               | Indicates the type of resource for which data is being submitted – for example this will indicate if a resource is predictable or variable and whether it is a price taker or price maker.<br>Permitted values include:<br>PRED_PR_MAKER_GEN;<br>PRED_PR_TAKER_GEN;<br>VAR_PR_MAKER_GEN;<br>VAR_PR_TAKER_GEN;<br>AUTO_PR_TAKER_GEN; | Mandatory                         | Mandatory                         |
| Resource Name                               | The name of the resource in question (e.g. the name of the Generator Unit, Supplier Unit, Demand Side Unit, Interconnector Unit or Interconnector for which data is being submitted).   | Mandatory                         | Mandatory                         |

| UNIT (RESOURCE) DATA – Generator parameters  |   |  |   |
|--|---|--|---|
| Screen Name                                  | Comment   | Type 2<br>Mandatory/<br>Optional           | Type 3<br>Mandatory/<br>Optional          |
| IM Resource Name                             | Reference ID to the unit's injection point to the transmission system referenced in the Connection Agreement  | Optional                                   | Optional                                  |
| Connection Point                             | Identifier of the Unit connection point (provided by the Transmission System Operators).  | Optional                                   | Optional                                  |
| Connection Type                              | Will be "TRNS" if transmission system connected and "DIST" if distribution system connected.  | Optional                                   | Optional                                  |
| Connection Agreement                         | Reference ID to the unit's and/or Participant's connection agreement.   | Optional                                   | Optional                                  |
| Effective Date                               | Proposed date and time when Participant will become eligible to participate in the market.  | Mandatory                                  | Optional                                  |
| Expiry Date                                  | Expiry Date   | Optional                                   | Optional                                  |
| Fuel type                                    | May be Oil (OIL), Gas (GAS), Coal (COAL), Multiple Fuel (MULTI), Wind (WIND), Hydro (HYDRO), Biomass (BIO), Combined Heat and Power (CHP), Pumped Storage (PUMP) Demand Side Unit (DEM) | Mandatory                                  | Optional                                  |
| Minimum Stable Generation                    | Registered Minimum Stable Generation level in MW.   | Mandatory                                  | Optional                                  |
| Minimum Time Sync Cold                       | This is not utilised in the systems. This can be left as NULL in the Data Transaction   | Mandatory, but not used by the SEM systems | Optional, but not used by the SEM systems |
| Minimum Time Sync Warm                       | The duration in hours off load that indicates the standby status change of the unit from Warm to Cold.  | Mandatory                                  | Optional                                  |
| Minimum Time Sync Hot                        | The duration in hours off load that indicates the standby status change of the unit from Hot to Warm.   | Mandatory                                  | Optional                                  |
| Minimum Generation                           | The lowest value at which a Generator Unit may operate. Minimum Output will be equal to zero for all Generator Units that are not Pumped Storage Units or Interconnector Units.         | Mandatory                                  | Optional                                  |
| Maximum Generation                           | Maximum Generation level, in MW.  | Mandatory                                  | Optional                                  |
| Maximum Ramp Up Rate for Demand Side Unit    | Maximum Ramp Up Rate for Demand Side Units.   | Mandatory                                  | Optional                                  |
| Maximum Ramp Down Rate for Demand Side Units | Maximum Ramp Down Rate for Demand Side Units.   | Mandatory                                  | Optional                                  |
| Number of Hours elapsed for Cold Sync time.  | This is not utilised in the systems. This can be left as NULL in the Data Transaction   | Mandatory, but not used by the SEM systems | Optional, but not used by the SEM systems |



| UNIT (RESOURCE) DATA – Generator parameters   |   |  |   |
|---|---|--|---|
| Screen Name                                   | Comment   | Type 2<br>Mandatory/<br>Optional           | Type 3<br>Mandatory/<br>Optional          |
| Number of Hours elapsed for Warm Sync time    | This is not utilised in the systems. This can be left as NULL in the Data Transaction   | Mandatory, but not used by the SEM systems | Optional, but not used by the SEM systems |
| Number of Hours elapsed for Hot Sync time     | This is not utilised in the systems. This can be left as NULL in the Data Transaction   | Mandatory, but not used by the SEM systems | Optional, but not used by the SEM systems |
| Pumped Storage flag                           | May be Y, N or NULL – it will only be Y if the Unit is a pumped storage unit.   | Mandatory                                  | Optional                                  |
| Energy Limit Flag                             | May be Y, N or NULL – it will only be Y if the Unit is a pumped storage unit.   | Mandatory                                  | Optional                                  |
| Netting Generator Flag                        | Only applicable to RPMG, PPTG, VPMG, VPTG, APTG. It is a Y/N/Null field. Null for supplier, demand and interconnector.  | Mandatory                                  | Optional                                  |
| Short-Term Maximisation Capacity above MAXGEN | Capacity above MAXGEN that can be sustained for a finite period of time (MW).   | Mandatory                                  | Optional                                  |
| Short-Term Maximisation time                  | The duration in hours representing the length of time that Short-Term Maximisation can be sustained.  | Mandatory                                  | Optional                                  |
| Minimum On-time                               | The minimum time that must elapse from the time a Generator Unit Starts-Up before it can be Shut-Down   | Mandatory                                  | Optional                                  |
| Maximum On-time                               | The maximum time that must elapse from the time a Generator Unit Starts-Up before it can be Shut-Down   | Mandatory                                  | Optional                                  |
| Minimum Off-time                              | The minimum time that a Generator Unit must remain producing no Active Power or Reactive Power commencing at the time when it stops producing Active Power or Reactive Power. | Mandatory                                  | Optional                                  |
| Start Forbidden Range 1                       | MW level where restricted loading range (1) starts. Unit must move through this range as quickly as possible  | Mandatory                                  | Optional                                  |
| End Forbidden Range 1                         | MW level where restricted loading range (1) ends. Unit must move through this range as quickly as possible.   | Mandatory                                  | Optional                                  |
| Start Forbidden Range 2                       | MW level where restricted loading range (2) starts. Unit must move through this range as quickly as possible.   | Mandatory                                  | Optional                                  |
| End Forbidden Range 2                         | MW level where restricted loading range (2) ends. Unit must move through this range as quickly as possible.   | Mandatory                                  | Optional                                  |
| Fixed Unit Load                               | Fixed linear factor used to calculate net output from a Generator Unit. Fixed Unit Load (FUL) $\geq 0$  | Mandatory                                  | Optional                                  |

### UNIT (RESOURCE) DATA – Generator parameters

| Screen Name         | Comment   | Type 2<br>Mandatory/<br>Optional | Type 3<br>Mandatory/<br>Optional |
|---------------------|---|----------------------------------|----------------------------------|
| Unit Load Scalar    | Scalar quantity which approximates physical losses associated with a Generator Unit Transformer. Unit Load Scalar (ULS). $0 < ULS \leq 1$ . | Mandatory                        | Optional                         |
| Start-up Time Cold  | Notification/Start-up times in hours for a unit considered to be in a cold state.   | Mandatory                        | Optional                         |
| Start-up Time warm  | Notification/Start-up times in hours for a unit considered to be in a warm state.   | Mandatory                        | Optional                         |
| Start-up Time Hot   | Notification/Start-up times in hours for a unit considered to be in a hot state.  | Mandatory                        | Optional                         |
| Block load Flag     | Will be "Yes" or "No", depending on whether the Unit has block loading characteristics.   | Mandatory                        | Optional                         |
| Block Load Cold     | Block Load in MW when the unit is in a cold state.  | Mandatory                        | Optional                         |
| Block Load Warm     | Block Load in MW when the unit is in a warm state.  | Mandatory                        | Optional                         |
| Block Load Hot      | Block Load in MW when the unit is in a hot state.   | Mandatory                        | Optional                         |
| Loading Rate Cold 1 | Loading Up Rate in MW/min when a Unit is in a cold state that applies until LOADING_UP_BREAK_PT_COLD_1.                                     | Mandatory                        | Optional                         |
| Loading Rate Cold 2 | Loading Up Rate in MW/min when a Unit is in a cold state that applies from LOADING_UP_BREAK_PT_COLD_1 to LOADING_UP_BREAK_PT_COLD_2.        | Mandatory                        | Optional                         |
| Loading Rate Cold 3 | Loading Up Rate in MW/min when a Unit is in a cold state that applies above LOADING_UP_BREAK_PT_COLD_2.                                     | Mandatory                        | Optional                         |
| Loading Rate Warm 1 | Loading Up Rate in MW/min when a Unit is in a warm state that applies until LOADING_UP_BREAK_PT_WARM_1.                                     | Mandatory                        | Optional                         |
| Loading Rate Warm 2 | Loading Up Rate in MW/min when a Unit is in a warm state that applies from LOADING_UP_BREAK_PT_WARM_1 to LOADING_UP_BREAK_PT_WARM_2.        | Mandatory                        | Optional                         |
| Loading Rate Warm 3 | Loading Up Rate in MW/min when a Unit is in a warm state that applies above LOADING_UP_BREAK_PT_WARM_2.                                     | Mandatory                        | Optional                         |
| Loading Rate Hot 1  | Loading Up Rate in MW/min when a Unit is in a hot state that applies until LOADING_UP_BREAK_PT_HOT_1.                                       | Mandatory                        | Optional                         |
| Loading Rate Hot 2  | Loading Up Rate in MW/min when a Unit is in a hot state that applies from LOADING_UP_BREAK_PT_HOT_1 to LOADING_UP_BREAK_PT_HOT_2.           | Mandatory                        | Optional                         |

### UNIT (RESOURCE) DATA – Generator parameters

| Screen Name                  | Comment   | Type 2<br>Mandatory/<br>Optional | Type 3<br>Mandatory/<br>Optional |
|------------------------------|---|----------------------------------|----------------------------------|
| Loading Rate Hot 3           | Loading Up Rate in MW/min when a Unit is in a hot state that applies above <u>LOADING_UP_BREAK_PT_HOT_2</u> .   | Mandatory                        | Optional                         |
| Loading Up Breakpoint Cold 1 | MW level from which the cold loading up rate will change from Loading Rate 1 to Loading Rate 2.   | Mandatory                        | Optional                         |
| Loading Up Breakpoint Cold 2 | MW level from which the cold loading up rate will change from Loading Rate 2 to Loading Rate 3.   | Mandatory                        | Optional                         |
| Loading Up Breakpoint Warm 1 | MW level from which the warm loading up rate will change from Loading Rate 1 to Loading Rate 2.   | Mandatory                        | Optional                         |
| Loading Up Breakpoint Warm 2 | MW level from which the warm loading up rate will change from Loading Rate 2 to Loading Rate 3.   | Mandatory                        | Optional                         |
| Loading Up Breakpoint Hot 1  | MW level from which the hot loading up rate will change from Loading Rate 1 to Loading Rate 2.  | Mandatory                        | Optional                         |
| Loading Up Breakpoint Hot 2  | MW level from which the hot loading up rate will change from Loading Rate 2 to Loading Rate 3.  | Mandatory                        | Optional                         |
| Soak Time Hot 1              | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a hot state before continuing to increase or decrease output.  | Mandatory                        | Optional                         |
| Soak Time Hot 2              | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a hot state before continuing to increase or decrease output.  | Mandatory                        | Optional                         |
| Soak Time Warm 1             | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a warm state before continuing to increase or decrease output. | Mandatory                        | Optional                         |
| Soak Time Warm 2             | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a warm state before continuing to increase or decrease output. | Mandatory                        | Optional                         |
| Soak Time Cold 1             | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a cold state before continuing to increase or decrease output. | Mandatory                        | Optional                         |
| Soak Time Cold 2             | Time below Minimum Stable Generation for which a Unit remains at a constant MW level whilst in a cold state before continuing to increase or decrease output. | Mandatory                        | Optional                         |
| Trigger Point Hot 1          | MW level at which <u>TRIGGER_PT_HOT_1</u> should be observed before output can further increase or decrease.  | Mandatory                        | Optional                         |

### UNIT (RESOURCE) DATA – Generator parameters

| Screen Name          | Comment  | Type 2<br>Mandatory/<br>Optional | Type 3<br>Mandatory/<br>Optional |
|----------------------|--|----------------------------------|----------------------------------|
| Trigger-Point Hot-2  | MW level at which TRIGGER_PT_HOT_2 should be observed before output can further increase or decrease.  | Mandatory                        | Optional                         |
| Trigger-Point Warm-1 | MW level at which TRIGGER_PT_WARM_1 should be observed before output can further increase or decrease. | Mandatory                        | Optional                         |
| Trigger-Point Warm-2 | MW level at which TRIGGER_PT_WARM_2 should be observed before output can further increase or decrease. | Mandatory                        | Optional                         |
| Trigger-Point Cold-1 | MW level at which TRIGGER_PT_COLD_1 should be observed before output can further increase or decrease. | Mandatory                        | Optional                         |
| Trigger-Point Cold-2 | MW level at which TRIGGER_PT_COLD_2 should be observed before output can further increase or decrease. | Mandatory                        | Optional                         |
| Start-up End Point   | This is not utilised in the systems. This can be left as NULL in the Data Transaction                  | Mandatory                        | Optional                         |
| Ramp-Up Rate-1       | Ramp Up Rate in MW/min that applies until RAMP_UP_BREAK_PT_1.  | Mandatory                        | Optional                         |
| Ramp-Up Rate-2       | Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_1 until RAMP_UP_BREAK_PT_2.                  | Mandatory                        | Optional                         |
| Ramp-Up Rate-3       | Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_2 until RAMP_UP_BREAK_PT_3.                  | Mandatory                        | Optional                         |
| Ramp-Up Rate-4       | Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_3 until RAMP_UP_BREAK_PT_4.                  | Mandatory                        | Optional                         |
| Ramp-Up Rate-5       | Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_4.   | Mandatory                        | Optional                         |
| Ramp-Up Breakpoint-1 | MW level from which the ramp rate will change from Ramp Rate 1 to Ramp Rate 2.                         | Mandatory                        | Optional                         |
| Ramp-Up Breakpoint-2 | MW level from which the ramp rate will change from Ramp Rate 2 to Ramp Rate 3.                         | Mandatory                        | Optional                         |
| Ramp-Up Breakpoint-3 | MW level from which the ramp rate will change from Ramp Rate 3 to Ramp Rate 4.                         | Mandatory                        | Optional                         |
| Ramp-Up Breakpoint-4 | MW level from which the ramp rate will change to Ramp Rate 5.  | Mandatory                        | Optional                         |
| Ramp-Down Rate-1     | Ramp Down Rate in MW/min that applies until RAMP_DOWN_BREAK_PT_1.                                      | Mandatory                        | Optional                         |
| Ramp-Down Rate-2     | Ramp Down Rate in MW/min that applies from RAMP_DOWN_BREAK_PT_1 until RAMP_DOWN_BREAK_PT_2.            | Mandatory                        | Optional                         |

### UNIT (RESOURCE) DATA – Generator parameters

| Screen Name                | Comment  | Type 2<br>Mandatory/<br>Optional | Type 3<br>Mandatory/<br>Optional |
|----------------------------|--|----------------------------------|----------------------------------|
| Ramp-Down-Rate-3           | Ramp Down Rate in MW/min that applies from RAMP_DOWN_BREAK_PT_2 until RAMP_DOWN_BREAK_PT_3.  | Mandatory                        | Optional                         |
| Ramp-Down-Rate-4           | Ramp Down Rate in MW/min that applies from RAMP_DOWN_BREAK_PT_3 until RAMP_DOWN_BREAK_PT_4.  | Mandatory                        | Optional                         |
| Ramp-Down-Rate-5           | Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_5.   | Mandatory                        | Optional                         |
| Ramp-Down-Breakpoint-1     | MW level from which the ramp rate will change from Ramp Rate 1 to Ramp Rate 2.   | Mandatory                        | Optional                         |
| Ramp-Down-Breakpoint-2     | MW level from which the ramp rate will change from Ramp Rate 2 to Ramp Rate 3.   | Mandatory                        | Optional                         |
| Ramp-Down-Breakpoint-3     | MW level from which the ramp rate will change from Ramp Rate 3 to Ramp Rate 4.   | Mandatory                        | Optional                         |
| Ramp-Down-Breakpoint-4     | MW level from which the ramp rate will change to Ramp Down Rate 5.   | Mandatory                        | Optional                         |
| Deloading-Rate-1           | Deloading Rate in MW/min that applies for a Unit below Minimum Stable Generation until DELOAD_BREAK_PT.                                | Mandatory                        | Optional                         |
| Deloading-Rate-2           | Deloading Rate in MW/min that applies for a Unit below Minimum Stable Generation beyond DELOAD_BREAK_PT.                               | Mandatory                        | Optional                         |
| Deload-Break-Point         | MW level from which the deloading rate will change from DELOADING_RATE_1 to DELOADING_RATE_2.  | Mandatory                        | Optional                         |
| Dwell-Time-1               | Time above Minimum Stable Generation for which a Unit remains at a constant MW level before continuing to increase or decrease output. | Mandatory                        | Optional                         |
| Dwell-Time-2               | Time above Minimum Stable Generation for which a Unit remains at a constant MW level before continuing to increase or decrease output. | Mandatory                        | Optional                         |
| Dwell-Time-3               | Time above Minimum Stable Generation for which a Unit remains at a constant MW level before continuing to increase or decrease output. | Mandatory                        | Optional                         |
| Dwell-Time-Trigger-Point-1 | MW level at which DWELL_TIMES_1 should be observed before output can further increase or decrease.                                     | Mandatory                        | Optional                         |
| Dwell-Time-Trigger-Point-2 | MW level at which DWELL_TIMES_2 should be observed before output can further increase or decrease.                                     | Mandatory                        | Optional                         |
| Dwell-Time-Trigger-Point-3 | MW level at which DWELL_TIMES_3 should be observed before output can further increase or decrease.                                     | Mandatory                        | Optional                         |

| UNIT (RESOURCE) DATA – Generator parameters                                 |   |                                  |                                  |
|---|---|----------------------------------|----------------------------------|
| Screen Name   | Comment   | Type 2<br>Mandatory/<br>Optional | Type 3<br>Mandatory/<br>Optional |
| Droop   | In relation to the operation of the governor of a Generator Unit, the percentage drop in System Frequency which would cause the Generator Unit under free governor action to change its output from zero to Full Load. (in %)   | Mandatory                        | Optional                         |
| Number of Starts  | Number of Starts available before maintenance of the unit when < 30 starts. Note: this value will be provided by Participants as part of their technical offer data. There will be no requirement to consider it in the optimization runs.  | Mandatory                        | Optional                         |
| Number of Run Hours   | Number of run hours available for a unit before maintenance when < 200 hours. Note: this value will be provided by Participants as part of their technical offer data. There will be no requirement to consider it in the optimization runs.  | Mandatory                        | Optional                         |
| Minimum Reservoir Capacity  | For Pumped Storage, Minimum possible capacity for the reservoir (MWh). Reservoir levels must be the same for submissions from all Units Sharing the Reservoir. The value for the first unit by alphabetical order of the unit's name will be selected if the reservoir capacities differ. | Mandatory                        | Optional                         |
| Maximum Reservoir Capacity  | For Pumped Storage, reservoir levels must be the same for submissions from all Units Sharing the Reservoir. The value for the first unit by alphabetical order of the unit's name will be selected if the reservoir capacities differ.  | Mandatory                        | Optional                         |
| Pumping Load Capacity   | For Pumped Storage, the load consumed by unit during pumping phase (MW).  | Mandatory                        | Optional                         |
| Pumped Storage Cycle Efficiency   | (PSCEff) The ratio between the gross electrical energy consumed to pump a given quantity of water from the lower reservoir to the upper reservoir and the net electrical energy sent out through the release of that quantity of water from the upper reservoir                           | Mandatory                        | Optional                         |
| Modes of Operation  | This is not utilised in the systems. This can be left as NULL in the Data Transaction   | Mandatory                        | Optional                         |
| Physical Location ID  | Name of unit location on the transmission system.   | Mandatory                        | Optional                         |
| Identification of Unit location on grid                                     | Unique identifier of unit location. Multiple Unit IDs can exist for each Physical Location (e.g. Supplier Unit and Generator Unit).   | Mandatory                        | Optional                         |
| Name of station or site where unit is located (multiple units per station). | Name of station or site where unit is located (there can be multiple units per station).  | Mandatory                        | Optional                         |
| Identification of the Station   | Station ID defined by the Transmission System Operators.  | Optional                         | Optional                         |

### UNIT (RESOURCE) DATA – Generator parameters

| Screen Name                       | Comment   | Type 2<br>Mandatory/<br>Optional | Type 3<br>Mandatory/<br>Optional |
|-----------------------------------|---|----------------------------------|----------------------------------|
| Station address line 1            | Station Address line 1.   | Optional                         | Optional                         |
| Station address line 2            | Station Address line 2.   | Optional                         | Optional                         |
| Registered Firm Capacity          | Total deep-connected capacity designation for the unit.   | Mandatory                        | Optional                         |
| Non-Firm Access Quantity          | Non-firm capacity for a unit in MW, i.e. part of a Generator Unit's Availability that does not have Firm Access.  | Mandatory                        | Optional                         |
| Target Reservoir Level Percentage | Target Reservoir Level Percentage, applied to the Target Reservoir Level to calculate the target for the end of the Optimisation Horizon. The Regulatory Authorities reserve the right to set this value. | Mandatory                        | Optional                         |
| Commission Test Certificate       | Acceptance of commission test for data and generation communication requirements.   | Optional                         | Optional                         |
| Old Resource Flag                 | To indicate if this is an old resource whose ownership is being changed/ or is being re-registered.   | Optional                         | Optional                         |
| Old Resource Name                 | In case of a previously registered resource, this is to provide its previous registered resource identification.  | Optional                         | Optional                         |
| Old Participant Name              | Participant ID of the previous Participant (if applicable). Can be left NULL if not relevant.   | Optional                         | Optional                         |
| Priority Dispatch flag            | Indication of a Unit's priority in the physical market schedule if in a tie to serve marginal demand. Will be Y or N and will be set in conjunction with the Transmission System Operator(s).             | Mandatory                        | Optional                         |
| Unit under test start date        | Date when the Unit is proposed to be under test. This will be approved by the Market Operator in conjunction with the Transmission System Operator(s).  | Optional                         | Optional                         |
| Unit under test end date          | Date when the Unit is proposed to complete its test. This will be approved by the Market Operator in conjunction with the Transmission System Operator(s).  | Optional                         | Optional                         |
| Qualified Communication Channel   | Indicator of the communication channels the unit has been qualified to utilise.   | Optional                         | Optional                         |
| Jurisdiction                      | Jurisdiction for the resource – will be "ROI" or "NI".  | Optional                         | Optional                         |
| Notification Comment              | Used by the Market Operator and Participant to exchange notes with respect to that registration data.   | Optional                         | Optional                         |
| Trading Site Name                 | Name of the Trading Site to which the Generator Unit is associated.   | Optional                         | Optional                         |

| UNIT (RESOURCE) DATA – Generator parameters    |  |   |  |
|--|--|---|--|
| Screen Name                                    | Comment  | Type 2<br>Mandatory /<br>Optional         | Type 3<br>Mandatory /<br>Optional        |
| Data Exchange Test                             | Will be P (Pass) or F (Fail), depending on whether Market Operator data exchange testing is successful.                                | Optional but do not use                   | Optional but do not use                  |
| EB Licence number                              | Regulatory licence id number for the Participant based on type of unit owned (e.g. Wind Generation, Demand-side, etc.).                | Optional                                  | Optional                                 |
| Electricity Commission License Effective Date  | Electricity Commission License Effective Date.   | Optional                                  | Optional                                 |
| Electricity Commission License Expiration Date | Electricity Commission License Expiration Date.  | Optional                                  | Optional                                 |
| External ID                                    | Optional External ID text field that can be used to track submissions by Participants. This can be non-unique and cannot be queried.   | Optional                                  | Optional                                 |
| Target Reservoir Level MWh/MW/h                | Minimum Reservoir Level required at the end of the Trading Day.  | Mandatory but not used by the SEM systems | Optional but not used by the SEM systems |
| Default Data Submission                        | This is a flag set by the Market Operator, and indicates whether Default Data has been submitted by the Market Participant for a Unit. | Optional                                  | Optional                                 |

#### Load Parameters

| UNIT (RESOURCE) DATA – Load parameters |   |                                   |                                   |
|--|---|-----------------------------------|-----------------------------------|
| Screen Name                            | Comment   | Type 2<br>Mandatory /<br>Optional | Type 3<br>Mandatory /<br>Optional |
| Resource Type                          | Demand Side Unit (DU) or Supplier Unit (SU)   | Mandatory                         | Mandatory                         |
| Resource Name                          | The name of the resource in question (e.g. the name of the Generator Unit, Supplier Unit, Demand Side Unit, Interconnector Unit or Interconnector for which data is being submitted). | Mandatory                         | Mandatory                         |
| IM Resource Name                       | Reference ID to the unit's injection point to the transmission system referenced in the Connection Agreement  | Optional                          | Optional                          |
| Connection Point                       | Identifier of the Unit (provided by the system operators).  | Optional                          | Optional                          |
| I                                      | Transmission or Distribution Connected.   | Optional                          | Optional                          |
| Connection Agreement                   | Reference ID to the unit's and/or Participant's connection agreement.   | Optional                          | Optional                          |
| Effective Date                         | Effective Date for Load Data Submission   | Mandatory                         | Optional                          |
| Expiry Date                            | Expiry Date for Load Data Submission  | Optional                          | Optional                          |
| Max Ramp Up                            | Rate of load increase. Rate of decreasing   | Optional                          | Optional                          |



### UNIT (RESOURCE) DATA – Load parameters

| Screen Name                     | Comment   | Type 2<br>Mandatory /<br>Optional | Type 3<br>Mandatory /<br>Optional |
|---------------------------------|---|-----------------------------------|-----------------------------------|
|                                 | demand (MW/min);  |                                   |                                   |
| Max Ramp Down                   | Rate of load reduction, Rate of increasing demand (MW/min);   | Optional                          | Optional                          |
| Dispatchable capacity           | MWs available for curtailment;  | Optional                          | Optional                          |
| Non-Dispatchable capacity       | Portion of total demand not available for curtailment;  | Optional                          | Optional                          |
| Minimum Down Time               | Minimum amount of time the demand-side unit can be curtailed, (in Hours)  | Optional                          | Optional                          |
| Maximum Down Time               | Maximum amount of time the demand-side unit can be curtailed, (in Hours)  | Optional                          | Optional                          |
| Trading Site Supplier Flag      | Trading Site Supplier Flag (Y/N)  | Optional                          | Optional                          |
| Unit under test start date      | When applicable   | Optional                          | Optional                          |
| Unit under test end date        | When applicable   | Optional                          | Optional                          |
| Old Resource Flag               | To Indicate if this is an old resource whose ownership is being changed / or is being re-registered                     | Optional                          | Optional                          |
| Old Resource Name               | In case of a previously registered resource, this is to provide its previous registered resource identification;        | Optional                          | Optional                          |
| Old Participant Name            | In case of a previously registered resource, this is to provide its previous registered Participant identification;     | Optional                          | Optional                          |
| Qualified Communication Channel | Indicator of the communication channels the unit has been qualified to utilize;   | Optional                          | Optional                          |
| Jurisdiction                    | ROI or NI;  | Optional                          | Optional                          |
| Notification Comment            | Used by the operator and Participant to exchange notes with respect to that registration data;                          | Optional                          | Optional                          |
| Data Exchange Test              | Will be P (Pass) or F (Fail), depending on whether Market Operator data exchange testing is successful;                 | Optional                          | Optional                          |
| EB Licence number               | Regulatory licence id number for the Participant based on type of unit owned (e.g. Wind Generation, Demand-side, etc.); | Optional                          | Optional                          |
| Effective Date of EB Licence    | Proposed date and time when Participant will become eligible to participate in the market;                              | Optional                          | Optional                          |
| Expiry Date of EB Licence       | Expiry Date of EB Licence   | Optional                          | Optional                          |
| Station ID                      | Station ID created by the system operators;   | Optional                          | Optional                          |
| Station Address line 1          | Address of Station for informational purposes;  | Optional                          | Optional                          |

### UNIT (RESOURCE) DATA – Load parameters

| Screen Name             | Comment  | Type 2<br>Mandatory /<br>Optional | Type 3<br>Mandatory /<br>Optional |
|-------------------------|--|-----------------------------------|-----------------------------------|
| Station Address line 2  | Address of Station for informational purposes, (following)   | Optional                          | Optional                          |
| External ID             | Optional text field that can be used to track submissions by Market Participants   | Optional                          | Optional                          |
| Fuel Type               | Type of Fuel   | Optional                          | Optional                          |
| Default Data Submission | This is a flag set by the Market Operator, and indicates whether Default Data has been submitted by the Market Participant for a Unit. | Optional                          | Optional                          |

### GENERATOR OFFER DATA

| GENERATOR OFFER DATA |  |                                   |                                   |
|----------------------|--|-----------------------------------|-----------------------------------|
| Name                 | Comment  | Type 2<br>Mandatory /<br>Optional | Type 3<br>Mandatory /<br>Optional |
| APPLICATION_TYPE     | Must be "DAM"  | Mandatory                         | Optional                          |
| TRADING_DATE         | Market Window for normal bid is not open for trading_date {0} and application_type {1}.<br>An error occurred when fetching data from the cm_market table for trading_date {0}  |                                   |                                   |
| PARTICIPANT_NAME     | Invalid combination of participant_name {0} and user_name {1} for trading_date {2}. The user_name {0} for participant_name {1} does not have system access privileges to participate in Market Trading for trading_date {2}            | Mandatory                         | Optional                          |
| USER_NAME            | Invalid combination of participant_name {0} and user_name {1} for trading_date {2}. The user_name {0} for participant_name {1} does not have system access privileges to participate in Market Trading for trading_date {2}            | Mandatory                         | Optional                          |
| MODE                 | Must be NORMAL   | Mandatory                         | Optional                          |
| STANDING_FLAG        | Market Window for standing bid is not open for trading_date {0} and application_type {1}. The standing_flag must set to true when Standing Element is present. In multiple Standing Data Submissions, type "ALL" conflicts with other. | Mandatory                         | Optional                          |
| VERSION_NO           | Only one {0} element is allowed per submission   | Mandatory                         | Optional                          |
| RESOURCE_NAME        | The resource name {0} is invalid   | Mandatory                         | Mandatory                         |

| GENERATOR OFFER DATA |  |                                  |                                  |
|----------------------|--|----------------------------------|----------------------------------|
| Name                 | Comment  | Type 2<br>Mandatory/<br>Optional | Type 3<br>Mandatory/<br>Optional |
| RESOURCE_TYPE        | Invalid facility_type (0) given for facility_name (1); it must be PRED_PR_MAKER_GEN, PRED_PR_TAKER_GEN, VAR_PR_MAKER_GEN, or VAR_PR_TAKER_GEN. The submitted resource_type value (0) does not match the value (2) registered for the resource (1).   | Mandatory                        | Mandatory                        |
| EXPIRY_DATE          | The expiry_date (0) must be in the future. The expiry_date (0) must be greater than or equal to trading_date (1).  | Optional                         | Optional                         |
| DAY_TYPE             | Submitted Standing Data with type (0) conflicts with existing Standing Data with type (1) for trading_date (2).  | Optional                         | Optional                         |
| EXTERNAL_ID          | Optional text field that can be used to track submissions by Market Participants. This can be non-unique and cannot be queried (although will be returned in responses if successful).   | Optional                         | Optional                         |
| START_HR             | The start_hr of (0) must be less than or equal to the end_hr of (1) in (2) element. Could not submit hour (0) and interval (1) in (2) element for (3) (4). The following Hours and Intervals did not match between the (0) element and the (1) element: (2). Missing hour (0) and interval (1) in (2) element, submission must cover the entire Trading Day. The hours and intervals are overlapping for (0) in following (1). The energy_limit_detail element must be present when energy_limit_flag is set to Y. The energy_limit_detail element can not be submitted when energy_limit_flag is set to N. The nomination_profile element must be present when resource_type is "PRED_PR_TAKER_GEN", "VAR_PR_TAKER_GEN" or unit under test. The decremental_price element must be present when resource_type is PRED_PR_TAKER_GEN, VAR_PR_TAKER_GEN or unit under test. | Mandatory                        | Optional                         |
| END_HR               | The start_hr of (0) must be less than or equal to the end_hr of (1) in (2) element. Could not submit hour (0) and interval (1) in (2) element for (3) (4). The following Hours and Intervals did not match between the (0) element and the (1) element: (2). Missing hour (0) and interval (1) in (2) element, submission must cover the entire Trading Day. The hours and intervals are overlapping for (0) in following (1). The energy_limit_detail element must be present when energy_limit_flag is set to Y. The energy_limit_detail element can not be submitted when energy_limit_flag is set to N. The nomination_profile element must be present when resource_type is "PRED_PR_TAKER_GEN", "VAR_PR_TAKER_GEN" or unit under test. The decremental_price element must be present when resource_type is PRED_PR_TAKER_GEN, VAR_PR_TAKER_GEN or unit under test. | Mandatory                        | Optional                         |

| GENERATOR OFFER DATA           |   |                                  |                                  |
|--------------------------------|---|----------------------------------|----------------------------------|
| Name                           | Comment   | Type 2<br>Mandatory/<br>Optional | Type 3<br>Mandatory/<br>Optional |
| START_INT                      | The start_int of {0} must be less than or equal to the end_int of {1} in {2} element. Missing hour {0} and interval {1} in {2} element, submission must cover the entire Trading Day. The hours and intervals are overlapping for {0} in following {1}. The following Hours and Intervals did not match between the {0} element and the {1} element: {2}. The energy_limit_detail element must be present when energy_limit_flag is set to Y. The energy_limit_detail element can not be submitted when energy_limit_flag is set to N. The nomination_profile element must be present when resource_type is "PRED_PR_TAKER_GEN", "VAR_PR_TAKER_GEN" or unit under test. The decremental_price element must be present when resource_type is PRED_PR_TAKER_GEN, VAR_PR_TAKER_GEN or unit under test. | Mandatory                        | Optional                         |
| END_INT                        | The start_int of {0} must be less than or equal to the end_int of {1} in {2} element. Missing hour {0} and interval {1} in {2} element, submission must cover the entire Trading Day. The hours and intervals are overlapping for {0} in following {1}. The following Hours and Intervals did not match between the {0} element and the {1} element: {2}. The energy_limit_detail element must be present when energy_limit_flag is set to Y. The energy_limit_detail element can not be submitted when energy_limit_flag is set to N. The nomination_profile element must be present when resource_type is "PRED_PR_TAKER_GEN", "VAR_PR_TAKER_GEN" or unit under test. The decremental_price element must be present when resource_type is PRED_PR_TAKER_GEN, VAR_PR_TAKER_GEN or unit under test. | Mandatory                        | Optional                         |
| MAXIMUM_MW                     | The {0} value of {1} must be greater than 0 from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}. The maximum_mw value of {0} must be greater than or equal to the minimum_mw value of {1} from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}.  | Mandatory                        | Optional                         |
| MINIMUM_MW                     | The {0} value of {1} must be greater than 0 from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}. The maximum_mw value of {0} must be greater than or equal to the minimum_mw value of {1} from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}.  | Mandatory                        | Optional                         |
| MINIMUM_OUTPUT_MW              | The {0} value of {1} MWh must be less than or equal to 0 MWh.   | Mandatory                        | Optional                         |
| TARGET_RESERVOIR_LEVEL_MWH     | The pump_storage_detail element must be present when pump_storage_flag is set to Y. The pump_storage_detail element can not be submitted when pump_storage_flag is set to N.  | Mandatory                        | Optional                         |
| TARGET_RESERVOIR_LEVEL_PERCENT | The pump_storage_detail element must be present when pump_storage_flag is set to Y.   | Optional                         | Optional                         |

### GENERATOR OFFER DATA

| Name   | Comment   | Type 2<br>Mandatory/<br>Optional                | Type 3<br>Mandatory/<br>Optional                |
|--|---|---|---|
| PRIOR_DAY_END_RESERVOIR_LEVEL_MWH            | The pump_storage_detail element must be present when pump_storage_flag is set to Y. The pump_storage_detail element can not be submitted when pump_storage_flag is set to N.  | Optional  | Optional  |
| OPERATIONAL_RESERVOIR_CAPACITY_LIMIT_MWH/MWh | The operational_reservoir_capacity_limit_mwh value of (0) must not exceed the Maximum Reservoir storage capacity value of (1). The operational_reservoir_capacity_limit_mwh value of (0) must not fall below the Minimum Reservoir storage capacity value of (1). The pump_storage_detail element must be present when pump_storage_flag is set to Y. The pump_storage_detail element can not be submitted when pump_storage_flag is set to Y.  | Optional <u>but not used by the SEM systems</u> | Optional <u>but not used by the SEM systems</u> |
| SPIN_GENERATION_COST                         | Cost of running in spinning mode. Used only operationally.  | Optional  | Optional  |
| SPIN_PUMP_COST                               | Cost of running in pumping mode. Used only operationally.   | Optional  | Optional  |
| MINIMUM_GENERATION_COST                      | Cost of running at minimum generation level. Used only operationally.   | Optional  | Optional  |
| LIMIT_MWH                                    | The energy_limit_detail element must be present when energy_limit_flag is set to Y. The energy_limit_detail element can not be submitted when energy_limit_flag is set to N.  | Mandatory                                       | Optional  |
| LIMIT_FACTOR                                 | The energy_limit_detail element must be present when energy_limit_flag is set to Y. The energy_limit_detail element can not be submitted when energy_limit_flag is set to N.  | Mandatory                                       | Optional  |
| ENERGY_LIMIT_PERIOD_FLAG                     | The energy_limit_detail element must be present when energy_limit_flag is set to Y. The energy_limit_detail element can not be submitted when energy_limit_flag is set to N.  | Mandatory                                       | Optional  |
| PQ_CURVE_PRICE                               | The Prices in the PQ Curve are not monotonically increasing between points (0) and (1). The price value of (0) in the pq_curve element must not exceed the Market Price Cap value of (1) ((2)). The price value of (0) in the pq_curve element must be not lower than the Market Price Floor value of (1) ((2)). The price_maker_detail element must be present when resource_type is "PRED_PR_MAKER_GEN" or "VAR_PR_MAKER_GEN" or Under Test is true. The pq_curve element can not be submitted in price_taker_detail element when resource type is (0). | Mandatory                                       | Optional  |

| GENERATOR OFFER DATA |  |                                  |                                  |
|----------------------|--|----------------------------------|----------------------------------|
| Name                 | Comment  | Type 2<br>Mandatory/<br>Optional | Type 3<br>Mandatory/<br>Optional |
| PQ_CURVE_QUANTITY    | The MW Quantities in the PQ Curve are not monotonically increasing between points {0} and {1}. The price_maker_detail element must be present when resource_type is "PRED_PR_MAKER_GEN" or "VAR_PR_MAKER_GEN" or Under Test is true. The pq_curve element can not be submitted in price_taker_detail element when resource type is {0}.  | Mandatory                        | Optional                         |
| STARTUP_COST_HOT     | Start-up costs for cold, warm or hot states. At least one and up to three values provided. The {0} value of {1} MWh must be greater than or equal to 0 MWh. The {0} start-up costs must be greater than or equal to {1} start-up costs. The price_maker_detail element must be present when resource_type is "PRED_PR_MAKER_GEN" or "VAR_PR_MAKER_GEN" or Under Test is true. The pq_curve element can not be submitted in price_taker_detail element when resource type is {0}. | Optional                         | Optional                         |
| STARTUP_COST_WARM    | Start-up costs for cold, warm or hot states. At least one and up to three values provided. The {0} value of {1} MWh must be greater than or equal to 0 MWh. The {0} start-up costs must be greater than or equal to {1} start-up costs. The price_maker_detail element must be present when resource_type is "PRED_PR_MAKER_GEN" or "VAR_PR_MAKER_GEN" or Under Test is true. The pq_curve element can not be submitted in price_taker_detail element when resource type is {0}. | Optional                         | Optional                         |
| STARTUP_COST_COLD    | Start-up costs for cold, warm or hot states. At least one and up to three values provided. The {0} value of {1} MWh must be greater than or equal to 0 MWh. The {0} start-up costs must be greater than or equal to {1} start-up costs. The price_maker_detail element must be present when resource_type is "PRED_PR_MAKER_GEN" or "VAR_PR_MAKER_GEN" or Under Test is true. The pq_curve element can not be submitted in price_taker_detail element when resource type is {0}. | Mandatory                        | Optional                         |
| NO_LOAD_COST         | The {0} value of {1} MWh must be greater than or equal to 0 MWh. The no_load_cost element must be presented in price_taker_detail element when resource type is PRED_PR_TAKER_GEN or PRED_PR_MAKER_GEN with unit under test. The no_load_cost element can not be submitted in price_taker_detail element when resource type is {0}.  | Mandatory                        | Optional                         |

### GENERATOR OFFER DATA

| Name                     | Comment  | Type 2<br>Mandatory<br>Optional | Type 3<br>Mandatory<br>Optional |
|--------------------------|--|---------------------------------|---------------------------------|
| NOMINATION_PROFILE_VALUE | The nomination_profile element must be present when resource_type is "PRED_PR_TAKER_GEN", "VAR_PR_TAKER_GEN" or unit under test  | Mandatory                       | Optional                        |
| DECREMENTAL_PRICE_VALUE  | The {0} value of {1} must be equal to 0 from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}. The decremental_price element must be present when resource_type is PRED_PR_TAKER_GEN, VAR_PR_TAKER_GEN or unit under test. | Mandatory                       | Optional                        |

### LOAD BID DATA

#### LOAD BID DATA

| Name             | Comment   | Type 2<br>Mandatory<br>Optional | Type 3<br>Mandatory<br>Optional |
|------------------|---|---------------------------------|---------------------------------|
| APPLICATION_TYPE | Must be "DAM"   | Mandatory                       | Optional                        |
| TRADING_DATE     | Market Window for normal bid is not open for trading_date {0} and application_type {1}. An error occurred when fetching data from the cm_market table for trading_date {0}  |                                 | Optional                        |
| PARTICIPANT_NAME | Invalid combination of participant_name {0} and user_name {1} for trading_date {2}. The user_name {0} for participant_name {1} does not have system access privileges to participate in Market Trading for trading_date {2} | Mandatory                       | Optional                        |
| USER_NAME        | Invalid combination of participant_name {0} and user_name {1} for trading_date {2}. The user_name {0} for participant_name {1} does not have system access privileges to participate in Market Trading for trading_date {2} | Mandatory                       | Optional                        |
| MODE             | Must be NORMAL  | Mandatory                       | Optional                        |
| STANDING_FLAG    | The standing_flag must set to true when Standing Element is present. In multiple Standing Data Submissions, type "ALL" conflicts with other.  | Mandatory                       | Optional                        |
| VERSION_NO       | Only one {0} element is allowed per submission  | Mandatory                       | Optional                        |
| RESOURCE_NAME    | The resource name {0} is invalid  | Mandatory                       | Mandatory                       |
| RESOURCE_TYPE    | Invalid facility_type {0} given for facility_name {1}, it must be PR_MAKER_DEMAND_UNIT. The submitted resource_type value {0} does not match the value {2} registered for the resource {1}                                  | Mandatory                       | Mandatory                       |
| EXPIRY_DATE      | The expiry_date {0} must be in the future. The expiry_date {0} must be greater than or equal to trading_date {1}  | Optional                        | Optional                        |

| LOAD BID DATA     |  |                                 |                                 |
|-------------------|--|---------------------------------|---------------------------------|
| Name              | Comment  | Type 2<br>Mandatory<br>Optional | Type 3<br>Mandatory<br>Optional |
| DAY_TYPE          | Submitted Standing Data with type {0} conflicts with existing Standing Data with type {1} for trading date {2}.  | Optional                        | Optional                        |
| EXTERNAL_ID       | Optional text field that can be used to track submissions by Market Participants. This can be non-unique and cannot be queried (although will be returned in responses if successful).   | Optional                        | Optional                        |
| START_HR          | The start_hr of {0} must be less than or equal to the end_hr of {1} in {2} element. Could not submit hour {0} and interval {1} in {2} element for {3} {4}. The following Hours and Intervals did not match between the {0} element and the {1} element: {2}. Missing hour {0} and interval {1} in {2} element, submission must cover the entire Trading Day. The hours and intervals are overlapping for {0} in following {1}. | Mandatory                       | Optional                        |
| END_HR            | The start_hr of {0} must be less than or equal to the end_hr of {1} in {2} element. Could not submit hour {0} and interval {1} in {2} element for {3} {4}. The following Hours and Intervals did not match between the {0} element and the {1} element: {2}. Missing hour {0} and interval {1} in {2} element, submission must cover the entire Trading Day. The hours and intervals are overlapping for {0} in following {1}. | Mandatory                       | Optional                        |
| START_INT         | The start_int of {0} must be less than or equal to the end_int of {1} in {2} element. Missing hour {0} and interval {1} in {2} element, submission must cover the entire Trading Day. The hours and intervals are overlapping for {0} in following {1}. The following Hours and Intervals did not match between the {0} element and the {1} element: {2}.  | Mandatory                       | Optional                        |
| END_INT           | The start_int of {0} must be less than or equal to the end_int of {1} in {2} element. Missing hour {0} and interval {1} in {2} element, submission must cover the entire Trading Day. The hours and intervals are overlapping for {0} in following {1}. The following Hours and Intervals did not match between the {0} element and the {1} element: {2}.  | Mandatory                       | Optional                        |
| MAXIMUM_MW        | The {0} value of {1} MWh must be greater than or equal to 0 MWh from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}. The maximum_mw value of {0} must be greater than or equal to the minimum_mw value of {1} from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}.   | Mandatory                       | Optional                        |
| MINIMUM_MW        | The {0} value of {1} MWh must be greater than or equal to 0 MWh from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}. The maximum_mw value of {0} must be greater than or equal to the minimum_mw value of {1} from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}.   | Mandatory                       | Optional                        |
| MINIMUM_OUTPUT_MW | The {0} value of {1} MWh must be less than or equal to 0 MWh from start_hr {2}, start_int {3} to   | Mandatory                       | Optional                        |



### LOAD BID DATA

| Name                     | Comment  | Type 2<br>Mandatory<br>Optional | Type 3<br>Mandatory<br>Optional |
|--------------------------|--|---------------------------------|---------------------------------|
|                          | end_hr (4); end_int (5)  |                                 |                                 |
| PQ_CURVE_PRICE           | The Prices in the PQ Curve are not monotonically increasing between points (0) and (1). The price value of (0) in the pq_curve element must not exceed the Market Price Cap value of (1) ((2)). The price value of (0) in the pq_curve element must be not lower than the Market Price Floor value of (1) ((2)).   | Mandatory                       | Optional                        |
| PQ_CURVE_QUANTITY        | The MW Quantities in the PQ Curve are not monotonically increasing between points (0) and (1). The quantity value of (0) must not exceed the maximum_import_capacity_mw value of (1) for hour (2) and interval (3). The quantity value of (0) must not exceed the maximum_export_capacity_mw value of (1) for hour (2) and interval (3).   | Mandatory                       | Optional                        |
| SHUTDOWN_COST            | :  | Mandatory                       | Optional                        |
| START_HR                 | The start_hr of (0) must be less than or equal to the end_hr of (1) in (2) element. Could not submit hour (0) and interval (1) in (2) element for (3) (4). The following Hours and Intervals did not match between the (0) element and the (1) element: (2). Missing hour (0) and interval (1) in (2) element, submission must cover the entire Trading Day. The hours and intervals are overlapping for (0) in following (1). | Mandatory                       | Optional                        |
| END_HR                   | The start_hr of (0) must be less than or equal to the end_hr of (1) in (2) element. Could not submit hour (0) and interval (1) in (2) element for (3) (4). The following Hours and Intervals did not match between the (0) element and the (1) element: (2). Missing hour (0) and interval (1) in (2) element, submission must cover the entire Trading Day. The hours and intervals are overlapping for (0) in following (1). | Mandatory                       | Optional                        |
| START_INT                | The start_int of (0) must be less than or equal to the end_int of (1) in (2) element. Missing hour (0) and interval (1) in (2) element, submission must cover the entire Trading Day. The hours and intervals are overlapping for (0) in following (1). The following Hours and Intervals did not match between the (0) element and the (1) element: (2).  | Mandatory                       | Optional                        |
| END_INT                  | The start_int of (0) must be less than or equal to the end_int of (1) in (2) element. Missing hour (0) and interval (1) in (2) element, submission must cover the entire Trading Day. The hours and intervals are overlapping for (0) in following (1). The following Hours and Intervals did not match between the (0) element and the (1) element: (2).  | Mandatory                       | Optional                        |
| NOMINATION_PROFILE_VALUE | :  | Mandatory                       | Optional                        |

### LOAD BID DATA

| Name                        | Comment   | Type 2<br>Mandatory /<br>Optional | Type 3<br>Mandatory /<br>Optional |
|-----------------------------|---|-----------------------------------|-----------------------------------|
| DECREMENTAL_PRICE_START_HR  | The start_hr of {0} must be less than or equal to the end_hr of {1} in {2} element. Could not submit hour {0} and interval {1} in {2} element for {3} {4} | Mandatory                         | Optional                          |
| DECREMENTAL_PRICE_START_INT | The start_int of {0} must be less than or equal to the end_int of {1} in {2} element  | Mandatory                         | Optional                          |
| DECREMENTAL_PRICE_END_HR    | The start_hr of {0} must be less than or equal to the end_hr of {1} in {2} element. Could not submit hour {0} and interval {1} in {2} element for {3} {4} | Mandatory                         | Optional                          |
| DECREMENTAL_PRICE_END_INT   | The start_int of {0} must be less than or equal to the end_int of {1} in {2} element  | Mandatory                         | Optional                          |
| DECREMENTAL_PRICE_VALUE     | The {0} value of {1} must be equal to 0 from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}   | Mandatory                         | Optional                          |

### INTERCONNECTOR OFFER DATA

| INTERCONNECTOR OFFER DATA |  |                                   |                                   |
|---------------------------|--|-----------------------------------|-----------------------------------|
| Name                      | Comment  | Type 2<br>Mandatory /<br>Optional | Type 3<br>Mandatory /<br>Optional |
| APPLICATION_TYPE          | Must be "DAM"  | Mandatory                         | Optional                          |
| TRADING_DATE              | Market Window for normal bid is not open for trading_date {0} and application_type {1}<br>An error occurred when fetching data from the em_market table for trading_date {0}   |                                   | Optional                          |
| PARTICIPANT_NAME          | Invalid combination of participant_name {0} and user_name {1} for trading_date {2} The user_name {0} for participant_name {1} does not have system access privileges to participate in Market Trading for trading_date {2} | Mandatory                         | Optional                          |
| USER_NAME                 | Invalid combination of participant_name {0} and user_name {1} for trading_date {2} The user_name {0} for participant_name {1} does not have system access privileges to participate in Market Trading for trading_date {2} | Mandatory                         | Optional                          |
| MODE                      | Must be NORMAL   | Mandatory                         | Optional                          |
| STANDING_FLAG             | Could not {0} a standing bid for settlement reallocation<br>The Standing Element could not be presented in settlement reallocation {0}. Only one {0} element is allowed per submission                                     | Mandatory                         | Optional                          |
| VERSION_NO                | Only one {0} element is allowed per submission   | Mandatory                         | Optional                          |
| RESOURCE_NAME             | The resource name {0} is invalid   | Mandatory                         | Mandatory                         |

| INTERCONNECTOR OFFER DATA  |   |                                   |                                   |
|----------------------------|---|-----------------------------------|-----------------------------------|
| Name                       | Comment   | Type 2<br>Mandatory /<br>Optional | Type 3<br>Mandatory /<br>Optional |
| RESOURCE_TYPE              | Invalid facility_type {0} given for facility_name {1}, it must be INTERCONNECTOR. The submitted resource_type value {0} does not match the value {2} registered for the resource {1}  | Mandatory                         | Mandatory                         |
| EXPIRY_DATE                | The expiry_date {0} must be in the future. The expiry_date {0} must be greater than or equal to trading_date {1}  | Optional                          | Optional                          |
| DAY_TYPE                   | Submitted Standing Data with type {0} conflicts with existing Standing Data with type {1} for trading_date {2}  | Optional                          | Optional                          |
| EXTERNAL_ID                | Optional text field that can be used to track submissions by Market Participants. This can be non-unique and cannot be queried (although will be returned in responses if successful).  | Optional                          | Optional                          |
| START_HR                   | The start_hr of {0} must be less than or equal to the end_hr of {1} in {2} element. Could not submit hour {0} and interval {1} in {2} element for {3} {4}. The following Hours and Intervals did not match between the {0} element and the {1} element: {2}. Missing hour {0} and interval {1} in {2} element, submission must cover the entire Trading Day. The hours and intervals are overlapping for {0} in following {1} | Mandatory                         | Optional                          |
| END_HR                     | The start_hr of {0} must be less than or equal to the end_hr of {1} in {2} element. Could not submit hour {0} and interval {1} in {2} element for {3} {4}. The following Hours and Intervals did not match between the {0} element and the {1} element: {2}. Missing hour {0} and interval {1} in {2} element, submission must cover the entire Trading Day. The hours and intervals are overlapping for {0} in following {1} | Mandatory                         | Optional                          |
| START_INT                  | The start_int of {0} must be less than or equal to the end_int of {1} in {2} element. Missing hour {0} and interval {1} in {2} element, submission must cover the entire Trading Day. The hours and intervals are overlapping for {0} in following {1}. The following Hours and Intervals did not match between the {0} element and the {1} element: {2}  | Mandatory                         | Optional                          |
| END_INT                    | The start_int of {0} must be less than or equal to the end_int of {1} in {2} element. Missing hour {0} and interval {1} in {2} element, submission must cover the entire Trading Day. The hours and intervals are overlapping for {0} in following {1}. The following Hours and Intervals did not match between the {0} element and the {1} element: {2}  | Mandatory                         | Optional                          |
| MAXIMUM_IMPORT_CAPACITY_MW | The maximum_import value of {0} must not exceed the Maximum Interconnector Import Capacity value of {1}   | Mandatory                         | Optional                          |
| MAXIMUM_EXPORT_CAPACITY_MW | The maximum_export value of {0} must not exceed the Maximum Interconnector Export Capacity value of {1}   | Mandatory                         | Optional                          |

| INTERCONNECTOR OFFER DATA |  |                                  |                                  |
|---------------------------|--|----------------------------------|----------------------------------|
| Name                      | Comment  | Type 2<br>Mandatory/<br>Optional | Type 3<br>Mandatory/<br>Optional |
| PQ_CURVE_PRICE            | The Prices in the PQ Curve are not monotonically increasing between points {0} and {1}. The price value of {0} in the pq_curve element must not exceed the Market Price Cap value of {1} {{2}}. The price value of {0} in the pq_curve element must be not lower than the Market Price Floor value of {1} {{2}}.                         | Mandatory                        | Optional                         |
| PQ_CURVE_QUANTITY         | The MW Quantities in the PQ Curve are not monotonically increasing between points {0} and {1}. The quantity value of {0} must not exceed the maximum_import_capacity_mw value of {1} for hour {2} and interval {3}. The quantity value of {0} must not exceed the maximum_export_capacity_mw value of {1} for hour {2} and interval {3}. | Mandatory                        | Optional                         |

## SETTLEMENT REALLOCATION DATA

| SETTLEMENT REALLOCATION DATA |  |                        |  |
|------------------------------|--|------------------------|--|
| Name                         | Comment  | Mandatory/<br>Optional |  |
| APPLICATION_TYPE             | Must be "DAM"  | Mandatory              |  |
| TRADING_DATE                 | Market Window for normal bid is not open for trading_date {0} and application_type {1}.<br>An error occurred when fetching data from the cm_market table for trading_date {0}.   | Mandatory              |  |
| PARTICIPANT_NAME             | Invalid combination of participant_name {0} and user_name {1} for trading_date {2}. The user_name {0} for participant_name {1} does not have system access privileges to participate in Market Trading for trading_date {2}. | Mandatory              |  |
| USER_NAME                    | Invalid combination of participant_name {0} and user_name {1} for trading_date {2}. The user_name {0} for participant_name {1} does not have system access privileges to participate in Market Trading for trading_date {2}. | Mandatory              |  |
| MODE                         | Must be NORMAL   | Mandatory              |  |
| STANDING_FLAG                | Could not {0} a standing bid for settlement reallocation.<br>The Standing Element could not be presented in settlement reallocation {0}. Only one {0} element is allowed per submission.                                     | Mandatory              |  |
| VERSION_NO                   | Only one {0} element is allowed per submission.  | Mandatory              |  |
| CREDITED_PARTICIPANT_NAME    | Invalid participant_name {0} in sem_settlement_reallocation element.<br>Only one {0} element is allowed per submission.  | Mandatory              |  |
| REALLOCATION_TYPE            | Only one {0} element is allowed per submission.  | Mandatory              |  |
| EXTERNAL_ID                  | Only one {0} element is allowed per submission.  | Optional               |  |
| START_HR                     | The start_hr of {0} must be equal to the end_hr of {1} in {2} element.<br>Could not submit hour {0} and interval {1} in {2} element for {3} {4}. Only one {0} element is allowed per submission.                             | Mandatory              |  |

| SETTLEMENT REALLOCATION DATA |  |                      |  |
|------------------------------|--|----------------------|--|
| Name                         | Comment  | Mandatory / Optional |  |
| END_HR                       | The start_hr of {0} must be equal to the end_hr of {1} in {2} element. Could not submit hour {0} and interval {1} in {2} element for {3} {4}. Only one {0} element is allowed per submission | Mandatory            |  |
| START_INT                    | The start_int of {0} must be equal to the end_int of {1} in {2} element. Only one {0} element is allowed per submission  | Mandatory            |  |
| END_INT                      | The start_int of {0} must be equal to the end_int of {1} in {2} element. Only one {0} element is allowed per submission  | Mandatory            |  |
| AGREEMENT_NAME               | Only one {0} element is allowed per submission   | Mandatory            |  |
| MONETARY_VALUE               | The {0} value of {1} must be greater than 0 from start_hr {2}, start_int {3} to end_hr {4}, end_int {5}  | Mandatory            |  |



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**TEMPLATE OF FAX TEMPLATE FOR MO TO MP FOR REQUEST  
AUTHORISATION TO CHANGE BANKING DETAILS FROM MP  
(AS PER STEP 2 OF TABLE 1A)**

**MARKET OPERATOR HEADED PAPER**

Screen / T&SC Name Copy of revised Banking Details element  
Bank Name  
Bank Number  
Bank Account Name  
Account Number  
Bank Account Description  
Bank Branch Type  
Bank Branch Name  
Bank Branch Number of Sort Code  
Bank Branch Description  
Bank Branch Address line 1  
Bank Branch Address line 2  
Bank Branch City  
Bank Branch County  
Bank Branch Postal Code  
Bank Branch Country  
Bank Branch Phone  
Bank Branch Fax  
SWIFT BIC  
IBAN  
Bank Account Currency Jurisdiction  
Notification Comment  
External ID  
Effective Date  
Expiry Date

|  |  |
|--|--|
| <u>Screen / T&amp;SC Name</u>          | <u>Copy of revised Banking Details element</u> |
| <u>Bank Name</u>                       | -  |
| <u>Bank Number</u>                     | -  |
| <u>Bank Account Name</u>               | -  |
| <u>Account Number</u>                  | -  |
| <u>Bank Account Description</u>        | -  |
| <u>Bank Branch Type</u>                | -  |
| <u>Bank Branch Name</u>                | -  |
| <u>Bank Branch Number of Sort Code</u> | -  |
| <u>Bank Branch Description</u>         | -  |
| <u>Bank Branch Address line 1</u>      | -  |
| <u>Bank Branch Address line 2</u>      | -  |
| <u>Bank Branch City</u>                | -  |
| <u>Bank Branch County</u>              | -  |



|                                    |   |
|------------------------------------|---|
| Bank Branch Postal Code            | - |
| Bank Branch Country                | - |
| Bank Branch Phone                  | - |
| Bank Branch Fax                    | - |
| SWIFT BIC                          | - |
| IBAN                               | - |
| Bank Account Currency jurisdiction | - |
| Notification Comment               | - |
| External ID                        | - |
| Effective Start Date               | - |
| Expiration Date                    | - |

Authorised Signatures;

\_\_\_\_\_  
**Authorised Signatory A**  
**Date:**

\_\_\_\_\_  
**Authorised Signatory B**  
**Date:**

Please confirm the implementation of changes having received and verified this signed fax (as a hardcopy)\_by contacting us in the manner specified (fax and/or email) on the list of Authorised Signatories.

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## BANKING DETAILS INSTRUCTIONS

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### **COMPANY HEADED PAPER**

#### **To: Market Operator**

We hereby confirm that two of the following can authorise instructions (one signature from Panel A and one signature from Panel B) to the MO to amend the bank account details. Proof of identity is supplied with this documentation for each Signature (Copy of Passport and recent Utility Bill certified by a practicing solicitor).

Implementation of instructions to amend bank account details by the Market Operator is contingent on receiving the original signature of two personnel, one from Panel A and one signature Panel B listed below on the fax request from the Market Operator that details the proposed bank account amendments.

The request for this authorisation is sent by fax to the following fax number:

Primary fax number

+

Secondary fax number

+

#### PANEL A:

| <b>Personnel Authorised To Amend Bank Account Details (Block Capitals)</b> | <b>Sample Signature</b> |
|--|-------------------------|
|  |                         |
|  |                         |
|  |                         |
|  |                         |
|  |                         |

### **COMPANY HEADED PAPER**

#### PANEL B

| <b>Personnel Authorised To Amend Bank Account Details (Block Capitals)</b> | <b>Sample Signature</b> |
|--|-------------------------|
|  |                         |
|  |                         |
|  |                         |
|  |                         |
|  |                         |

*Market Operator Guidelines for Authorised Signatories:*

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