The Single Electricity Market (SEM)

Agreed Procedure 4: Transaction Submission and Validation

Version 10.0

21 October 2011

SEM Agreed Procedure

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DOCUMENT HISTORY

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RELATED DOCUMENTS

Document Title	Version	Date	By
Trading and Settlement Code	V10.0	21/10/2011	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 by Participants (excluding System Operators and Interconnector Administrators) and the process for the issue of Data Transactions by the Market Operator (MO).

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

In order to achieve this, the following topics are addressed:

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.

1.2 SCOPE OF AGREED PROCEDURE

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

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 messages within the scope of this Agreed Procedure are those Data Transactions 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 allow communication with the Participants via three distinct Communication Channel types:

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

2.3.1 Key Participant Activities

Each Participant may perform any of the following activities:

- Data submission;
- 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	
MI	Demand Offer Data	3	Yes	Yes	

Class	Element	Element sequence within Class *	Relevant for Data Submission?	Relevant for query of System Data?	Relevant for Report Query?
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*

Further information on the data that makes up each of these Elements can be found in Appendix 2 of this Agreed Procedure.

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 which, if 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.

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

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

Class	Element	Approval Requirements
MPR	Application Data	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). Once submitted, this Element has an approval lead time of up to two Working Days from the date of submission. All subsequent updates are submitted by the relevant Participant via either Type 2 or Type 3 Channels.
MPR	Users Data	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). Once submitted, this Element has an approval lead time of up to two Working Days from the date of submission. All subsequent updates are submitted by the relevant Participant via either Type 2 or Type 3 Channels.
MPR	Contacts Data	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. All subsequent updates are submitted by the relevant Participant via either Type 2 or Type 3 Channels.
MPR	Bank Data	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 the 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. 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.

Class	Element	Approval Requirements
MPR	Generator Parameters / Load Parameters	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. All Data Items can be submitted anytime before EA1 Gate Window Closure with an Effective Date of the next Trading Day with the following exceptions: **Maximum Generation (Registered Capacity)** 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. **Qualified Communication Channel** Approval time of at least one Working Day from the date of submission. **Unit Under Test Start Date** Effective Date at least 5 Working Days from date of submission **Unit Under Test End Date** Effective date at least 2 Working Days from date of submission **Priority Dispatch Flag** Effective Date at least 28 days from date of submission.
MPR	Query of System Data	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: • Application Data • Users Data • Bank Data • Contacts Data • Unit (Resource) Data
MI	Generator Offer Data Demand 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. 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.

Class	Element	Approval Requirements
MI	VDS Selection Generator Unit: Technical Offer Data Demand Side Unit: Technical Offer Data	For the Ex-Ante One MSP Software Run: Up to 09:20 on the Day prior to the start of the Trading Day the Participant may select an Approved Validation Data Set. For the Ex-Ante Two MSP Software Run: Up to 11:20 on the Day prior to the start of the Trading Day the Participant may select an Approved Validation Data Set.
MI	VDS Update Generator Unit: Technical Offer Data Demand Side Unit: Technical Offer Data	All Validation Data Set updates have an Approval time up to 10 days from date of submission.
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: • one month in the past for daily and weekly reports; and • two years in the past for monthly and annual reports.
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: • Generator Offer Data – query limited to one month of data in the past. • Demand Offer Data (for Demand Side Units) - query limited to one month of data in the past. • Interconnector Offer Data - query limited to one month of data in the past. • Settlement Reallocation Data query limited to two years of data in the past.
STL	Settlement Report Query	May be submitted at any time, with no Market Operator approval. Each Settlement Report query is limited to: • one month in the past for daily and weekly reports; and • two years in the past for monthly and annual reports.

2.5 DATA SUBMISSION : MARKET OPERATOR RESPONSE MESSAGES

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

For Type 2 Channel submissions using 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 2. Invalid Filename 3. XML request not well formed 4. There was an error processing the request 5. Invalid request type

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 its 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.

2.6 DEFAULT DATA RULES

2.6.1 Introduction

Default Data comprises 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, 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 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.

All COD, including 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 0Business 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 2.6.5).

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.
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	• Commercial and Technical Data if Accepted within the EA1 Gate Window; or • Standing Offer Data with Day Type Parameter corresponding to the relevant Trading Day, if such data is registered; or • Standing Offer Data with Day Type Parameter “ALL”.
EA2	• Commercial and Technical Data if Accepted within the EA2 Gate Window; or • Accepted data as at the EA1 Gate Window Closure.
WD1	• Commercial and Technical Data if Accepted within the WD1 Gate Window; or • Accepted data as at the EA2 Gate Window Closure.

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.

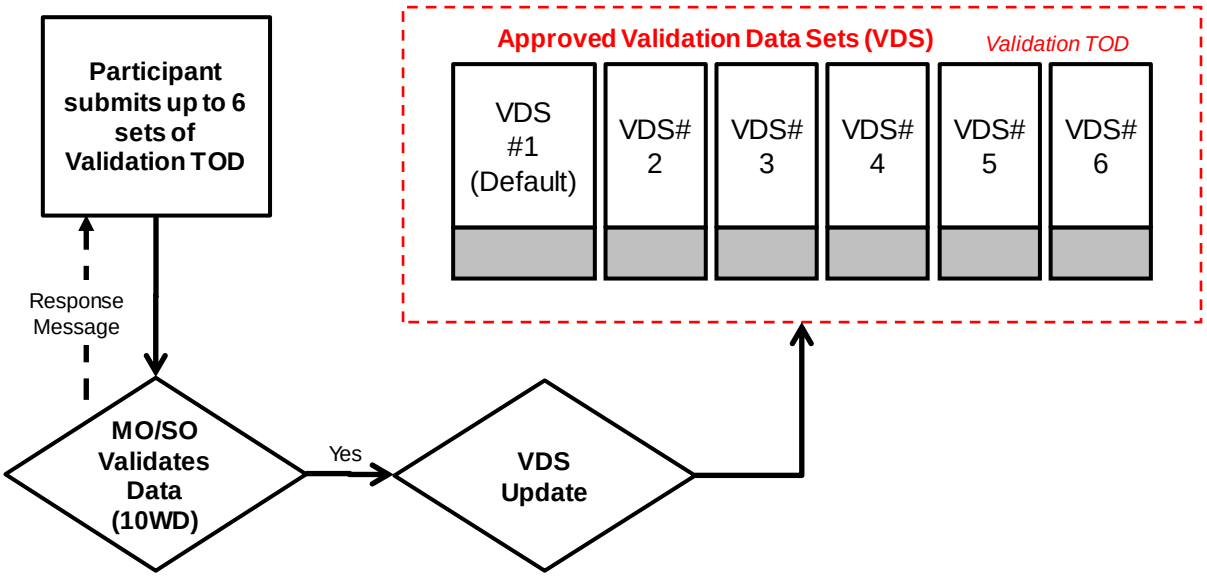
This data will be accepted up to 10 minutes prior to Gate Window Closure, for the EA1 and EA2 Gate Windows only. Following 10 minutes prior to the relevant Gate Window Closure, Participants will be blocked from making any further choice of Validation Data Set data for that Gate Window. In the event that 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.

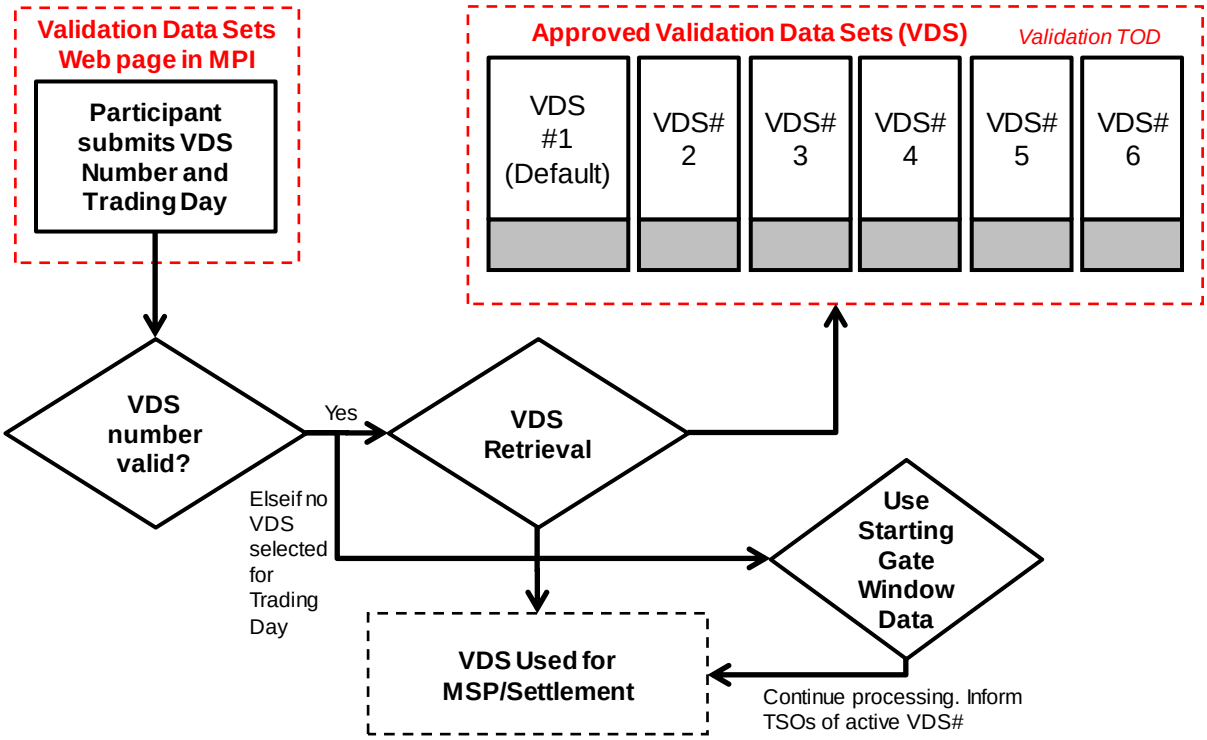
2.6.6.3 Change of Validation Data Set:

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.

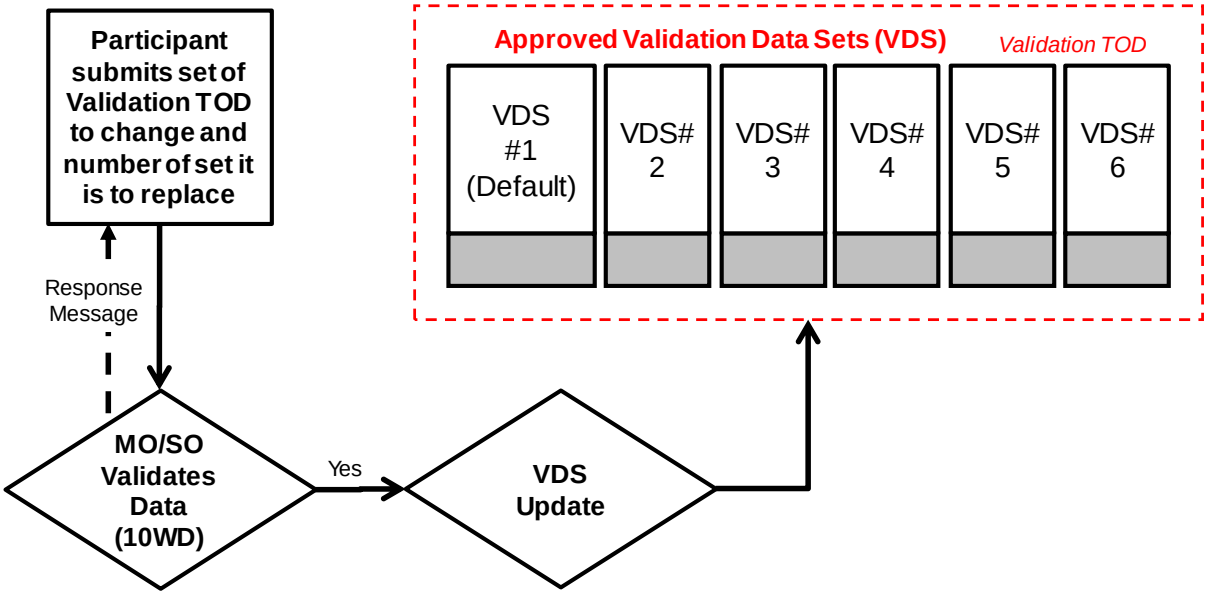
Initial set-up of 6 Validation Data Sets



Daily Choice of Validation Data Sets



Validation Data Set Update



3. PROCEDURE DEFINITION

3.1 PROCESS FOR DATA SUBMISSION, QUERY AND REPORT REQUEST

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

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

Element	An element is a set of business data. The 12 elements in scope are listed below: Application Data – MPR Contacts Data – MPR Users Data – MPR Bank Data – MPR Unit (Resource) Data – MPR Generator Offer Data – MI Demand Offer Data (for Demand Side Unit) – MI Interconnector Offer Data – MI Settlement Reallocation Data – MI Reports (except settlement Reports) – MI Settlement Reports – STL
Energy Limit	As defined in the Code
Energy Limited Generator Unit	As defined in the Code
External ID	For submission of Data Transactions, the schema will allow the Participant to provide an optional Data Transaction ID, called External ID
Framework Agreement	As defined in the Code
Gate Window Closure	As defined in the Code
Generator	As defined in the Code
Generator Unit	As defined in the Code
Help Desk	As defined in Agreed Procedure 11 “Market System Operation, Testing, Upgrading and Support”
Interconnector Administrator	As defined in the Code
Interface Documentation Set	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.
Invoice Due Date	As defined in the Code
Isolated Market System	As defined in the Code
Demand Offer Data	Unit bid data provided by a Participant

Market Interface	Data Transactions that cover market related data submitted by Participants
Market Operator	As defined in the Code
Market Participant Registration	Data Transactions that cover additional Technical Offer Data not included in the Market Interface class
Market Timeline	A period of time at which certain actions are taken or recorded that begins when at Unit Registration and ends at Trading Day
Market Web Interface	The mechanism through which Participants can send and receive Data Transactions through Type 2 Channel communication
Market Website	As defined in the Code
Offer Data	As defined in the Code
Participant Registration	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"
Party	As defined in the Code
Predictable Price Maker Generator Unit	As defined in the Code
Predictable Price Taker Generator Unit	As defined in the Code
Price Taker Generator Unit	As defined in the Code
Priority Flag	As defined in the Code
Registered Capacity	As defined in the Code
Regulatory Authorities	As defined in the Code
Generic Settlement Class	As defined in the Code
Settlement Reallocation	As defined in the Code
Settlement Reallocation Data	Means the data that is submitted by Participants to the Market Operator providing details of the Settlement Reallocation Agreement
Settlement Report	Means reports arising from Settlement
Standing Offer Data	Is as defined in section 2.6.3

Standing Offer Data Conversion	Means the process of converting Standing Offer Data to Offer Data at the opening of the Market Submission Window
Starting Gate Window Data	As defined in the Code
Submission Window	A time period within which a Data Transaction may be submitted by a Participant
Supplier	As defined in the Code
System Data	means the data stored in respect of a Party, Participant or Unit in the Market Operator's Isolated Market System.
Technical Offer Data (TOD)	As defined in the Code
Trading Day	As defined in the Code
Trading Period	As defined in the Code
Trading Site	As defined in the Code
Trading Site Data	Means data relating to a Trading Site
Type 1 Channel	As defined in the Code
Type 2 Channel	As defined in the Code
Type 3 Channel	As defined in the Code
Unit	As defined in the Code
Unit (Resource) Data	Means data relating to a Unit
Unit Registration	As defined in the Code
User	As defined in Agreed Procedure 1 "Participant Registration and Unit Registration and Deregistration"
Users Data	Means data relating to Participant User that has access to elements of the system
Validation Technical Offer Data (VTOD)	As defined in the Code
Variable Price Maker Generator Unit	As defined in the Code
Variable Price Taker Generator Unit	As defined in the Code
Web Form	Means a web page on the MPI which allows the

	Participant to enter data and submit the data to the Market Operator.
Web Services	Means the automated communication consisting of an XML-based programmatic interface
Working Day	As defined in the Code

ABBREVIATIONS

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

- 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

Class / Element	Screen Name	Comment	Data Category
	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
	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
MPR / Users	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	

Class / Element	Screen Name	Comment	Data Category
	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	
1	Comments	Comments on contact	
	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

Class / Element	Screen Name	Comment	Data Category
	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
	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 NI. 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

Class / Element	Screen Name	Comment	Data Category
	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
	Unit Load Scalar	Scalar quantity which approximates physical losses associated with a Generator Unit Transformer. Unit Load Scalar (ULS). 0 < ULS ≤ 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

Class / Element	Screen Name	Comment	Data Category
	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

Class / Element	Screen Name	Comment	Data Category
	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
	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.	
MPR / Load Parameters	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	MWs 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.	

Class / Element	Screen Name	Comment	Data Category
	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.	
MI / Generator 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	

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

Class / Element	Screen Name	Comment	Data Category
	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
	Deloading Rate 2	Deloading Rate in MW/min that applies for a Unit below Minimum Stable Generation beyond DELOAD_BREAK_PT.	VTOD
	Deload Break Point	MW level from which the deloading rate will change from DELOADING_RATE_1 to DELOADING_RATE_2.	VTOD
	Minimum Time Sync Cold	This is not utilised in the systems. This can be left as NULL in the Data Transaction	VTOD
	Minimum Time Sync Warm	The duration in hours off load that indicates the standby status change of the unit from Warm to Cold.	VTOD
	Minimum Time Sync Hot	The duration in hours off load that indicates the standby status change of the unit from Hot to Warm.	VTOD
	Start-Up Time Cold	Notification/Start-up times in hours for a unit considered to be in a cold state.	VTOD
	Start-Up Time warm	Notification/Start-up times in hours for a unit considered to be in a warm state.	VTOD
	Start-Up Time Hot	Notification/Start-up times in hours for a unit considered to be in a hot state.	VTOD
	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.	VTOD
	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.	VTOD
	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.	VTOD

Class / Element	Screen Name	Comment	Data Category
	Dwell Time Trigger Point 1	MW level at which DWELL_TIMES_1 should be observed before output can further increase or decrease.	VTOD
	Dwell Time Trigger Point 2	MW level at which DWELL_TIMES_2 should be observed before output can further increase or decrease.	VTOD
	Dwell Time Trigger Point 3	MW level at which DWELL_TIMES_3 should be observed before output can further increase or decrease.	VTOD
	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.	VTOD
	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.	VTOD
	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.	VTOD
	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	VTOD
	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	VTOD
	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	VTOD
	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.	VTOD
	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.	VTOD
	Loading Rate Hot 3	Loading Up Rate in MW/min when a Unit is in a hot state that applies above LOADING_UP_BREAK_PT_HOT_2.	VTOD
	Loading Up Breakpoint Cold 1	MW level from which the cold loading up rate will change from Loading Rate 1 to Loading Rate 2.	VTOD
	Loading Up Breakpoint Cold 2	MW level from which the cold loading up rate will change from Loading Rate 2 to Loading Rate 3.	VTOD
	Loading Up Breakpoint Warm 1	MW level from which the warm loading up rate will change from Loading Rate 1 to Loading Rate 2.	VTOD
	Loading Up Breakpoint Warm 2	MW level from which the warm loading up rate will change from Loading Rate 2 to Loading Rate 3.	VTOD
	Loading Up Breakpoint Hot 1	MW level from which the hot loading up rate will change from Loading Rate 1 to Loading Rate 2.	VTOD
	Loading Up Breakpoint Hot 2	MW level from which the hot loading up rate will change from Loading Rate 2 to Loading Rate 3.	VTOD
	Minimum On-time	The minimum time that must elapse from the time a Generator Unit Starts-Up before it can be Shut-Down	VTOD
	Maximum On-time	The maximum time that must elapse from the time a Generator Unit Starts-Up before it can be Shut-Down	VTOD
	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.	VTOD

Class / Element	Screen Name	Comment	Data Category
	Pumped Storage Cycle Efficiency	(PSCEuh) 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	VTOD
	Pumping Load Capacity	For Pumped Storage, the load consumed by unit during pumping phase (MW).	VTOD
	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
	Ramp Up Rate 1	Ramp Up Rate in MW/min that applies until RAMP_UP_BREAK_PT_1.	VTOD
	Ramp Up Rate 2	Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_1 until RAMP_UP_BREAK_PT_2.	VTOD
	Ramp Up Rate 3	Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_2 until RAMP_UP_BREAK_PT_3.	VTOD
	Ramp Up Rate 4	Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_3 until RAMP_UP_BREAK_PT_4.	VTOD
	Ramp Up Rate 5	Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_5.	VTOD
	Ramp Up Breakpoint 1	MW level from which the ramp rate will change from Ramp Rate 1 to Ramp Rate 2.	VTOD
	Ramp Up Breakpoint 2	MW level from which the ramp rate will change from Ramp Rate 2 to Ramp Rate 3.	VTOD
	Ramp Up Breakpoint 3	MW level from which the ramp rate will change from Ramp Rate 3 to Ramp Rate 4.	VTOD
	Ramp Up Breakpoint 4	MW level from which the ramp rate will change to Ramp Rate 5.	VTOD
	Ramp Down Rate 1	Ramp Down Rate in MW/min that applies until RAMP_DOWN_BREAK_PT_1.	VTOD
	Ramp Down Rate 2	Ramp Down Rate in MW/min that applies from RAMP_DOWN_BREAK_PT_1 until RAMP_DOWN_BREAK_PT_2.	VTOD
	Ramp Down Rate 3	Ramp Down Rate in MW/min that applies from RAMP_DOWN_BREAK_PT_2 until RAMP_DOWN_BREAK_PT_3.	VTOD
	Ramp Down Rate 4	Ramp Down Rate in MW/min that applies from RAMP_DOWN_BREAK_PT_3 until RAMP_DOWN_BREAK_PT_4.	VTOD
	Ramp Down Rate 5	Ramp Up Rate in MW/min that applies from RAMP_UP_BREAK_PT_5.	VTOD
	Ramp Down Breakpoint 1	MW level from which the ramp rate will change from Ramp Rate 1 to Ramp Rate 2.	VTOD
	Ramp Down Breakpoint 2	MW level from which the ramp rate will change from Ramp Rate 2 to Ramp Rate 3.	VTOD
	Ramp Down Breakpoint 3	MW level from which the ramp rate will change from Ramp Rate 3 to Ramp Rate 4.	VTOD
	Ramp Down Breakpoint 4	MW level from which the ramp rate will change to Ramp Down Rate 5.	VTOD

Class / Element	Screen Name	Comment	Data Category
	Start Forbidden Range 1	MW level where restricted loading range (1) starts. Unit must move through this range as quickly as possible	VTOD
	End Forbidden Range 1	MW level where restricted loading range (1) ends. Unit must move through this range as quickly as possible.	VTOD
	Start Forbidden Range 2	MW level where restricted loading range (2) starts. Unit must move through this range as quickly as possible.	VTOD
	End Forbidden Range 2	MW level where restricted loading range (2) ends. Unit must move through this range as quickly as possible.	VTOD
	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.	VTOD
	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.	VTOD
	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.	VTOD
	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.	VTOD
	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.	VTOD
	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.	VTOD
	Trigger Point Hot 1	MW level at which TRIGGER_PT_HOT_1 should be observed before output can further increase or decrease.	VTOD
	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"	

Class / Element	Screen Name	Comment	Data Category
	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	

Class / Element	Screen Name	Comment	Data Category
	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
	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 / Validation Technical Offer Data Choice	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	
	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).	
MI / Settlement Reallocation	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.	

Class / Element	Screen Name	Comment	Data Category
	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.	
	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

FAX TEMPLATE FOR MO TO MP FOR REQUEST AUTHORISATION TO CHANGE BANKING DETAILS (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

Authorised Signatures;

_____ _____

Authorised Signatory A **Authorised Signatory B**
Date: **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.

BANKING DETAILS INSTRUCTIONS

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:

Personnel Authorised To Amend Bank Account Details (Block Capitals)	**Sample Signature**

COMPANY HEADED PAPER

PANEL B

Personnel Authorised To Amend Bank Account Details (Block Capitals)	**Sample Signature**

The Market Operator has agreed to implement changes within 5 working days of receiving the appropriate confirmation. Having verified the proposed changes to bank account information the accepted changes must be confirmed by the Market Operator by fax/email communication to the contact details below two business days before implementation. Any future changes to this list of authorised signatories must also be confirmed by fax/email to the contact details below.

Primary Fax +
Secondary Fax +
Email 1
Email 2
Email 3
Email 4

_____ _____

Authorised Signatory **Authorised Signatory**
Date: **Date:**

Market Operator Guidelines for Authorised Signatories:

In the case of limited companies, reasonable evidence of authority should be provided which would include a certified copy of a board minute of a company naming certain individuals as having authority with respect to banking arrangements. This could be a power of attorney granted to certain individuals with respect to banking arrangements. This could be a standing authority of the board (which would have to be produced by way of a certified copy of the relevant resolution setting up the authority) showing that certain officers in the company have authority to conduct business including the operation of company bank accounts. In the case of an individual, then evidence of that individual's identity should be sufficient.