Trading and Settlement Code

Part B Agreed Procedure 4: Transaction Submission and Validation

August 18

2023

APPENDIX 2: 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:

a) Commercial Offer Data (COD)

b) Registration Data (RD)

c) Technical Offer Data (TOD)

d) Validation Registration Data (VRD)

e) Validation Technical Offer Data (VTOD)

f) Physical Notification Data (PND)

Table 1: Business Data per Element

Class / Element	Screen Name	Comment	Data Category
MPR / Participant	Participant Name	Short name for the Participant which will be used as the Participant Name in all Data Transactions	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Participant Class	Type of Participant	RD
	Company Name	Name of the Company	RD
	Place of Establishment	The Place of Establishment of the Participant	RD
	VAT Region	The VAT region of the Participant: EU, Non-EU	RD
	VAT Registration Number	VAT identification number (VATIN)	RD
	EIC Code	The EIC Code of the Participant.	RD
	ACER Code	The ACER code of the Participant	RD
	Jurisdiction	Jurisdiction of the Participant: NI, ROI, Other	RD
	Vat Status	VAT Exempt or Non-Exempt for each jurisdiction	RD
	Remit Reporting	Check box to specify that the participant signed up for Remit Reporting.	RD
	Open Cash Collateral Account	Check box to specify that the participant requests to open cash collateral account.	RD
	Cash Collateral Account Status	Status of cash collateral account: Complete, Incomplete, NA. (MO entered only)	RD
	Application reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Record Status	Status of the request: Submitted, Received, Withdrawn, Declined, Approved. (Automatically defaults to SUBMITTED upon submission. MO entered only thereafter)	RD

Class / Element	Screen Name	Comment	Data Category
	Care of	Company Care Of	RD
	Address Line 1	Company Address 1	RD
	Address Line 2	Company Address 2	RD
	Address Line 3	Company Address 3	RD
	City	Company City	RD
	County	Company County	RD
	Postal Code	Company Postal Code	RD
	Country	Company Country	RD
	Billing Address is same as Company Address	Checkbox to select if the Billing Address is the same as the Company Address	RD
	Care of	Billing Care Of	RD
	Address Line 1	Address to which all invoices for the Participant will be sent	RD
	Address Line 2	Address to which all invoices for the Participant will be sent	RD
	Address Line 3	Address to which all invoices for the Participant will be sent	RD
	City	City to which all invoices for the Participant will be sent	RD
	County	County to which all invoices for the Participant will be sent	RD
	Postal Code	Postal code to which invoices for the Participant will be sent	RD
	Country	Country to which all invoices for the Participant will be sent	RD
	Comments	Text box to enter additional information relevant to the application.	RD
MPR / Participant Validity	Participant Name	Short name for the Participant which will be used as the Participant Name in all Data Transactions	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Participant State	The registration state of the Participant: Registered, Suspended, Deregistered.	RD
	Application reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Record Status	Status of the request: Submitted, Received, Withdrawn, Declined, Approved. (Automatically defaults to SUBMITTED upon submission. Market Operator entered only thereafter)	RD
	Comments	Text box to enter additional information relevant to the application.	RD
MPR / Participant Balancing	Participant Name	Short name for the Participant	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD

Class / Element	Screen Name	Comment	Data Category
	End Date	End Date to when the submitted data is effective	RD
	Application Reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Record Status	Status of the request: Submitted, Received, Withdrawn, Declined, Approved. (Automatically defaults to SUBMITTED upon submission. Market Operator entered only thereafter)	RD
	Comments	Text box to enter additional information relevant to the application.	RD
MPR / Participant CRM	Participant Name	Short name for the Participant	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Application Reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Record Status	Status of the request: Submitted, Received, Withdrawn, Declined, Approved. (Automatically defaults to SUBMITTED upon submission. Market Operator entered only thereafter)	RD
	Comments	Text box to enter additional information relevant to the application.	RD
MPR / User	User Name	Short name for the user and it uniquely identifies the user within the party.	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Party Administrative User	Check box to specify whether the user is Party Administrative User.	RD
	Registration User	Check box to specify whether the user is Registration User.	RD
	Surname	Surname of the user.	RD
	Given Name	Given name of the user.	RD
	Position	Designation within the organisation for the user.	RD
	Email	Email Address	RD
	Phone	Phone number	RD
	Mobile	Mobile number	RD
	Fax	Fax number	RD
	Application Reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Authentication Code	User authentication code.	RD
	Confidential Question 1 - Date of Birth	User date of birth.	RD

Class / Element	Screen Name	Comment	Data Category
	Confidential Question 2 - Place of Birth	User place of birth.	RD
	Confidential Question 3 - Last Secondary School	Name of last secondary school.	RD
	Confidential Question 4 - Mothers Maiden Name	Mother's maiden name.	RD
	Care of	User Care Of	RD
	Address Line 1	User Address 1	RD
	Address Line 2	User Address 2	RD
	Address Line 3	User Address 3	RD
	City	User City	RD
	County	User County	RD
	Postal Code	User Postal Code	RD
	Country	User Country	RD
	Comments	Text box to enter additional information relevant to the application.	RD
MPR / User System Access	User Name	This is the unique name of the user within party.	RD
	Participant Name	The name of the Participant that is to be maintained by the User.	RD
	System Name	System Access: CRM_TRADER, BAL_TRADER, BAL_CRM_SETTLEMENT, BAL_CRM_OTHER, NEMO_AUCTION_TRADER, NEMO_CONTINUOUS_TRADER	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Access Code	Permissions: No Access, Read, Write	RD
	External User ID	External User ID.	RD
	Application Reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
MPR / User Authorisation	User Name	This is the unique name of the user within party.	RD
	Participant Name	The name of the Participant that is to be maintained by the User.	RD
	Authorisation Type	The type of authorisation requested	
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Secondary Signatory	Name of the person that counter sign request.	RD
MPR / User Key Contact	User Name	This is the unique name of the user within party.	RD
	Participant Name	The name of the Participant that is to be maintained by the User.	RD

Class / Element	Screen Name	Comment	Data Category
	Key Contact Type	The type of key contact requested.	
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Opt Out Standard Notification	Check box to specify if to opt out of Standard Notification or not.	RD
MPR / User Notification	User Name	This is the unique name of the user within party.	RD
	Notification Type	The type of notification requested: BAL_CRM_SETTLEMENT_AND_INVOICING, BAL_CRM_CREDIT, BAL_SYSTEM_AVAILABILITY, NEMO, AOLR_GENERAL_COMMUNICATIONS	RD
MPR / Bank	Participant Name	Short name for the Participant	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Bank Name	Name of the bank for the Market Participant	RD
	Account Name	Bank account name for the Market Participant.	RD
	Account Number	Bank account number for the Market Participant.	RD
	Bank Sort Code	Bank branch number for the Market Participant	RD
	Swift/BIC	Swift BIC code	RD
	IBAN	International Bank Account Number	RD
	Payment Reference	Description of the account.	RD
	Application Reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Record Status	Status of the request: Submitted, Received, Withdrawn, Declined, Approved. (Automatically defaults to SUBMITTED upon submission. Market Operator entered only thereafter)	RD
	Comments	Text box to enter additional information relevant to the application.	RD
MPR / Trading Site	Participant Name	The name of the Trading Participant whose Trading Site is being registered.	RD
	Trading Site Name	Trading Site identifier	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Trading Site Long Name	Description or long name of the Trading Site.	RD
	Firm Access Quantity	Firm Access Quantity of Trading Site.	RD
	Maximum Export Capacity	Maximum Export Capacity of Trading Site.	RD
	Generation Group Name	Generation Group Name of the Trading Site.	RD

Class / Element	Screen Name	Comment	Data Category
	Autoproducer	Check box to specify that the trading site is autoproducer.	RD
	Associated Supplier Unit	Supplier Unit Name associated with the Trading Site.	RD
	Application Reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Record Status	Status of the request: Submitted, Received, Withdrawn, Declined, Approved. (Automatically defaults to SUBMITTED upon submission. Market Operator entered only thereafter)	RD
MPR / Resource	Participant Name	The name of the Market Participant who is registering the resource.	RD
	Resource Name	Short name for the Resource (e.g. GU_XXX)	RD
	Resource Type	The type under which a specific resource is registered. Valid values: Generator, Demand Side Unit, Assetless Trading Unit, Trading Unit, External Unit, Supplier Unit, Interconnector, Capacity Aggregation Unit, Interconnector Error Unit, Interconnector Residual Capacity Unit.	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Jurisdiction	Jurisdiction of the Resource.	RD
	Acting As Intermediary	Check box to specify that the resource is acting as intermediary.	RD
	EIC Code	The EIC Code of the resource.	RD
	Fee Submitted	Check box to specify whether the relevant non-refundable Fee has been submitted or not.	RD
	Collateral Amount	Collateral amount for the resource and can be entered only by MO.	RD
	Contract Data Provider	The name of the Contract Data Provider.	RD
	Application Reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Record Status	Status of the request: Submitted, Received, Withdrawn, Declined, Approved. (Automatically defaults to SUBMITTED upon submission. Market Operator entered only thereafter)	RD
	Station Name	Name of the station where the resource is located.	RD
	Station ID	ID of the Station.	RD
	Address Line 1	Station Address 1	RD
	Address Line 2	Station Address 2	RD
	Exemption from License	Check box to specify that the resource is exempted from regulatory license.	RD
	License ID	Regulatory license ID.	RD
	License Effective Date	Effective date of the license	RD

Class / Element	Screen Name	Comment	Data Category
	Comments	Text box to enter additional information relevant to the application.	RD
MPR / Resource Validity	Participant Name	The name of the Market Participant whose resource is being modified.	RD
	Resource Name	Short name for the Resource that is being modified.	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Resource State	Indicates the registration state of the resource. Valid resource state: Registered, Suspended, Deregistered.	RD
	Application Reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Record Status	Status of the request: Submitted, Received, Withdrawn, Declined, Approved. (Automatically defaults to SUBMITTED upon submission. Market Operator entered only thereafter)	RD
	Comments	Text box to enter additional information relevant to the application.	RD
MPR / Resource Balancing	Participant Name	The name of the Market Participant whose resource is being modified.	RD
	Resource Name	Short name for the Resource that is being modified.	RD
	Resource Type	The type under which a specific resource is registered. Valid values: Generator, Demand Side Unit, Assetless Trading Unit, Trading Unit, External Unit, Supplier Unit, Interconnector, Capacity Aggregation Unit, Interconnector Error Unit, Interconnector Residual Capacity Unit.	
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Fuel Type	Valid values: BATTERY_STORAGE (BATTERY), BIOMASS, COAL, COMBINED_HEAT_AND_POWER (CHP), COMPRESSED_AIR_STORAGE (CAS), DISTILLATE, FLY_WHEEL, GAS, HYDRO, MULTI_FUEL, NUCLEAR, OIL, PEAT, PUMP_STORAGE (PUMP), Solar Power Units will be set equal to WIND, WIND, OTHER	RD
	Dispatchable	Indicate that the resource is dispatchable (True or False)	RD
	Priority Dispatch	Indicate that the resource is priority dispatch (True or False)	RD
	Energy Limited	Indicate that the resource is energy limited resource (True or False)	RD
	Supplier Unit Subtype	Type of the supplier unit. Valid values: SU, TSSU.	RD
	Trading Site Name	Name of the associated trading site	RD
	Aggregated Generator	Check box to specify that the resource is aggregated generator.	RD

Class / Element	Screen Name	Comment	Data Category
	AGU-SO Agreement	Aggregated generator unit System operator agreement. Valid values: Yes, No, NA.	RD
	Bidding Zone	Valid values: Euro, GBP	RD
	Settlement Group Name	Group name to associate another resource for settlement invoice purposes.	RD
	Maximum Export Capacity	The maximum export capacity in MW.	RD
	Non-Firm Access	Indicate non-firm access applicability (True or False)	RD
	Non-Firm Access Quantity	Non-Firm Access Quantity (MW)	RD
	TUoS Agreement	Transmission Use of System Agreement. Valid values: Completed, In Progress, NA.	RD
	Exemption from TUoS Agreement	Check box to specify that the resource is exempted from TUoS agreement.	RD
	DUoS Agreement	Distribution Use of System Agreement. Valid values: Completed, NA.	RD
	Meter ID (MPRN)	Meter point reference number.	RD
	DSU-SO Agreement	Demand Side Unit System Operator Agreement. Entered by Market Operator only.	RD
	Meter Data Provider	Name of the associated meter data provider.	RD
	Application Reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Record Status	Status of the request: Submitted, Received, Withdrawn, Declined, Approved. (Automatically defaults to SUBMITTED upon submission. Market Operator entered only thereafter)	RD
	Connection Type	Transmission or Distribution.	RD
	Connection Agreement	Resource or Participant connection agreement. Valid values: Completed, In Progress.	RD
	Connection Agreement Reference	Reference ID to the resource or Participant connection agreement.	RD
	Controllable	Check box to specify that the resource is a Controllable resource.	RD
	Combined Cycle Unit	Check box to specify that the resource is combined cycle resource.	RD
	Short Notice Unit	Check box to specify that the resource is short notice unit.	RD
	Synchronous	May be SYNCHONOUS or ASYNCHRONOUS.	RD
	Dual Rated Unit	Check box to specify that the resource is dual rated unit.	RD
	Secondary Fuel Type	Valid values: BATTERY_STORAGE (BATTERY), BIOMASS, COAL, COMBINED_HEAT_AND_POWER (CHP), COMPRESSED_AIR_STORAGE (CAS), DISTILLATE, FLY_WHEEL, GAS, HYDRO, MULTI_FUEL, NUCLEAR, OIL, PEAT, PUMP_STORAGE (PUMP), , OTHER	RD

Class / Element	Screen Name	Comment	Data Category
	Registered Capacity	Registered capacity in MW.	RD
	Registered Minimum Output	Minimum output capacity in MW.	RD
	Maximum Generation	Maximum generation capacity in MW.	RD
	Minimum Storage ~~Capacity~~Quantity	Minimum storage capacity in MWh.	RD
	Maximum Storage ~~Capacity~~Quantity	Maximum storage capacity in MWh.	RD
	Fixed Unit Load	Fixed linear factor used to calculate net output from a Generator Unit.	RD
	Unit Load Scalar	Scalar quantity which approximates physical losses associated with a Generator Unit Transformer	RD
	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.	RD
	Dispatchable Capacity	MWs available for curtailment.	RD
	Non-Dispatchable Capacity	Portion of total demand not available for curtailment.	RD
	Meter Transmission Type	The type of Meter Transmission. Valid values: PED, NPED, PEG, NPEG, CJF, None Market Operator entered only.	RD
	Autoproducer	Check box to specify that the resource is part of an autoproducer site. Market Operator entered only.	RD
	Zero Marginal Cost	Check box to specify that the resource is zero marginal cost resource. Market Operator entered only.	RD
	Operator Certificate Issued	Check box to specify that Operator Certificate has been issued. Market Operator entered only.	RD
	Operator Cert Effective Date	The date from when the Operator Certificate is to become effective. Market Operator entered only.	RD
	Retail Market Registration Complete	Check box to specify if Retail Market Registration is Complete or not. Market Operator entered only.	RD
	Generation Name	Short name of the Generation BMU	RD
	Demand Name	Short name of the Demand BMU.	RD
	EMS Code	EMS code. Transmission System Operator entered only.	RD
	EDIL Code	EDIL code. Transmission System Operator entered only.	RD

Class / Element	Screen Name	Comment	Data Category
	Dispatch System	Indicate dispatch system. Valid values: EDIL, EMS Transmission System Operator entered only.	RD
	Negative Ramping Reserve	Check box to indicate if Negative Ramping Reserve is enabled or not. Transmission System Operator entered only.	RD
	Priority Dispatch Category	The Category of Priority Dispatch. Transmission System Operator entered only.	RD
	Curtailment Priority	Type of the curtailment priority. Valid values: 1, 2a, 2b, 2c, 2d, 2e, 3 Transmission System Operator entered only.	RD
	Minimum Import Capacity	Minimum interconnector import capacity in MW. Market Operator or Transmission System Operator entered only.	RD
	Maximum Import Capacity	Maximum interconnector import capacity in MW. Market Operator or Transmission System Operator entered only.	RD
	Import Ramp Rate	Interconnector import ramp rate in MW/min. Market Operator or Transmission System Operator entered only.	RD
	Minimum Export Capacity	Minimum interconnector export capacity in MW. Market Operator or Transmission System Operator entered only.	RD
	Maximum Export Capacity	Maximum interconnector export capacity in MW. Market Operator or Transmission System Operator entered only.	RD
	Export Ramp Rate	Interconnector export ramp rate in MW/min. Market Operator or Transmission System Operator entered only.	RD
	Comments	Text box to enter additional information relevant to the application.	RD
MPR / Resource Capacity	Participant Name	The name of the Market Participant whose resource is being modified.	RD
	Resource Name	Short name for the Resource that is being modified.	RD
	Resource Type	The type under which a specific resource is registered. Valid values: Generator, Demand Side Unit, External Unit, Capacity Aggregation Unit,	RD
	Start Date	Start Date from when the submitted data is to become effective.	RD
	End Date	End Date to when the submitted data is effective	RD
	Pricing Zone	Pricing Zone	RD
	Aggregation Group Name	Capacity Aggregation Group Name if participant wants to group capacity with another participant for the purposes of capacity auctions.	RD
	CRM Unit Type	Capacity Market unit type classification.	RD
	De-Rating Factor	The de-rating factor to be applied to the CRM unit capacity.	RD

Class / Element	Screen Name	Comment	Data Category
	Maximum Exit Price	Maximum exit price.	RD
	Bid Tolerance	Capacity Market bid tolerance in MW.	RD
	Approval To Construct	Check box to specify approval to construct.	RD
	Application Reference	System generated unique reference assigned for each application change cycle generated upon submission.	RD
	Record Status	Status of the request: Submitted, Received, Withdrawn, Declined, Approved. (Automatically defaults to SUBMITTED upon submission. Market Operator entered only thereafter)	RD
	Unit Capacity	CRM Resource Capacity in MW.	RD
	Delivery Start Date	The first date on which capacity is available	RD
	Delivery End Date	The final date on which capacity is available	RD
	Meter ID	Meter point reference number.	RD
	Location	Co-ordinates of the location of the meter.	RD
	Key Date 1	Implementation key date 1	RD
	Key Date 2	Implementation key date 2	RD
	Key Date 3	Implementation key date 3	RD
	Key Date 4	Implementation key date 4	RD
	Key Date 5	Implementation key date 5	RD
	Comments	Text box to enter additional information relevant to the application.	RD
BMI / Generator Offer	Application Type	Must be "BM"	
	Trading Date	Trading Date 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	
	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)	
	Fuel Type	If there is a fuel_use element with type attribute value as “SECONDARY”, then the unit must be registered as a dual fuel unit.	
	Forecast Data Start Time	Used to identify data submitted on an Imbalance Settlement Period basis	

Class / Element	Screen Name	Comment	Data Category
	Forecast Data End Time	Used to identify data submitted on an Imbalance Settlement Period basis	
	Forecast Maximum Availability	As submitted by Generator Units for each Trading Day	COD
	Forecast Minimum Stable Generation	As submitted by Generator Units for each Trading Day	COD
	Forecast Minimum Output	As submitted by Generator Units for each Trading Day	COD
	Spin Generation Cost	For Pumped Storage Units ~~and Battery Storage Units~~ only, is the cost of running in spinning mode. Used only operationally	COD
	Spin Pump Cost	For Pumped Storage Units ~~and Battery Storage Units~~ only, is the cost of running ~~or charging~~ in pumping mode. Used only operationally	COD
	Energy Limit	For Energy Limited Units only, is the Energy Limit for the Trading Day	COD
	Operational Maximum Storage Quantity	For Battery Storage Units only, is the Operational Maximum Storage Quantity for the Trading Day. Used only operationally.	COD
	Operational Minimum Storage Quantity	For Battery Storage Units only, is the Operational Minimum Storage Quantity for the Trading Day. Used only operationally.	COD
	Incremental Price Quantity Curve - Price	Submitted as part of Commercial Offer Data in accordance with Appendix I	COD
	Incremental Price Quantity Curve - Quantity	Submitted as part of Commercial Offer Data in accordance with Appendix I	COD
	Decremental Price Quantity Curve - Price	Submitted as part of Commercial Offer Data in accordance with Appendix I.	COD
	Decremental 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
BMI / Generator Technical Offer Data	Resource Name	Must be a valid Resource Name	VTOD
	Date Type	Must be Submission	
	Version Number	Must be “1.0”	
	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).	
	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	Deloading Rate in MW/min that applies for a Unit below the DELOAD_BREAK_PT to zero.	VTOD
	Deloading Rate 2	Deloading Rate in MW/min that applies for a Unit below Registered 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
	Cooling Boundary Hot	The duration in hours off load that indicates the standby status change of the unit from Hot to Warm.	VTOD
	Cooling Boundary Warm	The duration in hours off load that indicates the standby status change of the unit from Warm to Cold.	VTOD
	Cooling Boundary Cold	This is not utilised in the systems. This can be left as NULL in the Data Transaction.	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 Registered Minimum Stable Generation (or for Battery Storage Units above Registered Minimum Stable Generation or below zero) for which a Unit remains at a constant MW level before continuing to increase or decrease output.	VTOD
	Dwell Time 2	Time above Registered Minimum Stable Generation (or for Battery Storage Units above Registered Minimum Stable Generation or below zero) for which a Unit remains at a constant MW level before continuing to increase or decrease output.	VTOD
	Dwell Time 3	Time above Registered Minimum Stable Generation (or for Battery Storage Units above Registered Minimum Stable Generation or below zero) for which a Unit remains at a constant MW level before continuing to increase or decrease output.	VTOD
	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

Class / Element	Screen Name	Comment	Data Category
	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~~ between zero and 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~~ between zero and 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~~ between zero and 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

Class / Element	Screen Name	Comment	Data Category
	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
	~~Pumped~~ Storage Cycle Efficiency	(P~~S~~CEuh ~~and FBSEuh~~) For Pumped Storage Units this is 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. For Battery Storage Units is a percentage value calculated from the level of Generation provided by the discharge of a defined quantity of charge from the Battery Storage Unit divided by the level of Demand required to store the same defined quantity of charge.	VTOD
	Pumping Capacity	For Pumped Storage ~~and Battery Storage~~, the load consumed by unit during pumping or charging phase (MW).	VTOD
	Off To Generating	Time taken to transition from Off to Generating	
	Off to Spin Pump	Time taken to transition from Off to Spin Pump	
	Spin Pump to Pumping	Time taken to transition from Spin Pump to Pumping	
	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

Class / Element	Screen Name	Comment	Data Category
	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
	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~~ between zero and Registered 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~~ between zero and Registered 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~~between zero and ~~-~~Registered 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~~ between zero and Registered 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~~ between zero and Registered 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~~ between zero and Registered 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

Class / Element	Screen Name	Comment	Data Category
	Soak Quantity Hot 1	MW quantity at which the first Soak Time occurs (hot state).	VTOD
	Soak Quantity Hot 2	MW quantity at which the second Soak Time occurs (hot state).	VTOD
	Soak Quantity Warm 1	MW quantity at which the first Soak Time occurs (warm state).	VTOD
	Soak Quantity Warm 2	MW quantity at which the second Soak Time occurs (warm state).	VTOD
	Soak Quantity Cold 1	MW quantity at which the first Soak Time occurs (cold state).	VTOD
	Soak Quantity Cold 2	MW quantity at which the second Soak Time occurs (cold state).	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
	Registered Minimum Stable Generation		VTOD
BMI / Demand Offer	Application Type	Must be "BM"	
	Trading Date	Trading Date 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	
	Resource Name	Must be a valid Resource Name	
	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 Time	Used to identify data submitted on an Imbalance Settlement Period basis.	
	End Time	Used to identify data submitted on an Imbalance Settlement Period basis.	
	Forecast Maximum Availability	As submitted by Generator Units for each Trading Day.	COD
	Forecast Minimum Stable Generation	As submitted by Generator Units for each Trading Day.	COD
	Forecast Minimum Output	As submitted by Generator Units for each Trading Day.	COD

Class / Element	Screen Name	Comment	Data Category
	Incremental Price Quantity Curve - Price	Submitted as part of Commercial Offer Data in accordance with Appendix I.	COD
	Incremental Price Quantity Curve - Quantity	Submitted as part of Commercial Offer Data in accordance with Appendix I.	COD
	Decremental Price Quantity Curve - Price	Submitted as part of Commercial Offer Data in accordance with Appendix I.	COD
	Decremental 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
BMI / Demand Technical Offer Data	Resource Name	Must be a valid Resource Name	VTOD
	Date Type	Must be “SUBMISSION”	
	Version Number	Must be “1.0”	
	Validation Data Set Number	Numerical identifier associated with a Validation Data Set Must be between 1 and 6	
	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
BMI / Validation Technical Offer Data Choice	Application Type	Must be "BM"	
	Trading Date	Trading Date for which the data is submitted.	
	Participant Name	Name of the Participant.	
	User Name	User Name.	
	Mode	Must be NORMAL	
	Resource Name	Must be a valid Resource Name	
	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).	
	Application Type	Must be "BM"	PND
	Trading Date	Trading Date for which the data is submitted.	PND

Class / Element	Screen Name	Comment	Data Category
BMI / Physical Notifications	Participant Name	Name of the Participant.	PND
	User Name	User Name.	PND
	Mode	Must be NORMAL	PND
	Version Number	Must be 1.0	PND
	Resource Name	Must be a valid Resource Name	PND
	Curve Type	Must be 'A01' or 'A04'	PND
	Start Time	Start Time of the PN Segment	PND
	From MW	Must be >=0 for all Generators apart from Pumped Storage Units and Battery Storage Units.	PND
	End Time	End Time of the PN Segment	PND
	To MW	Must be >=0 for all Generators apart from Pumped Storage Units and Battery Storage Units.	PND
	Under Test Flag	True or False	PND
	Reason	Must be provided for each PN segment, where Under Test Flag is true.	PND
	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).	PND
BMI / Settlement Reallocation	Application Type	Must be "BM"	
	Trading Date	Trading Date 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	
	Principal Participant Name	Must be a valid Participant.	
	Secondary Principal Name	Must be a valid Participant.	
	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 Date	The starting date of the SRA. It has to be greater than D for a new submission.	
	End Date	This is the ending date of the SRA. It has to be greater than D for any submission. The end date also has to be greater than equal to the start_date.	
	Agreement Name	A name for the SRA as provided by a Participant.	
	Cancel Flag	When cancel_flag is submitted as true, an existing SRA with the principal_participant_name, secondary_participant_name, start_date and end_date must exist	