

BB DATA SUBMISSION ~~PROCEDURES~~ GUIDE VERSION 41.0

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Important notice

PURPOSE

~~These~~This BB Data Submission ~~Procedures specify the requirements~~Guide sets our specific data elements for submitting information to AEMO for the Natural Gas Services Bulletin Board and ~~have effect only for the purposes set out in the Rules validation rules~~. The Rules, the National Gas Law and the ~~document named the~~ BB Procedures prevail over ~~thesethis~~ BB Data Submission ~~Procedures~~Guide to the extent of any inconsistency.

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VERSION CONTROL

Version	Release date	Changes
1.0	XX XXX XXXX	Replaces BB Data Submission Procedures. Updated to include changes to existing and new reports resulting from the National Gas Amendment (Market Transparency) Rule 2022

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1. Overview

1.1 Purpose

~~These~~This BB Data Submission ~~Procedures specify~~Guide sets out the ~~requirements~~specific data elements for ~~submitting~~ the following information to ~~be submitted to~~ AEMO for the Natural Gas Services Bulletin Board ~~as required by the BB Procedures~~:

- ~~BB reporting entities~~ to submit forecast and actual data and information on curtailed quantities of auction services; and
- capacity sellers or their agents to submit capacity transaction information.
- ~~These BB Data Submission Procedures form part of the BB Procedures.~~ gas sellers or their agents to submit gas or LNG transaction information.

If there is any inconsistency between ~~these~~this BB Data Submission ~~Procedures~~Guide and the ~~document named the 'BB Procedures'~~ document named the 'BB Procedures' ~~BB Procedures~~, the ~~BB Procedures~~ prevails.

In relation to ~~transitional~~BB compression facilities:

- ~~these~~this BB Data Submission ~~Procedures specify~~Guide specifies the ~~requirements~~data elements for registered ~~transportation service providers~~ for ~~transitional~~BB compression facilities to submit forecast and actual data to AEMO for the Natural Gas Services Bulletin Board;
- ~~these~~this BB Data Submission ~~Procedures~~Guide should be read in conjunction with section 25 of the *Capacity Transfer and Auction Procedures*; and
- if there is any inconsistency between ~~these~~this BB Data Submission ~~Procedures~~Guide and the *Capacity Transfer and Auction Procedures*, the *Capacity Transfer and Auction Procedures* prevail.

1.2 Application

~~These~~This BB Data Submission ~~Procedures apply to AEMO~~Guide sets out the specific data elements and ~~each person~~validation rules for information to ~~whom they are expressed~~be provided pursuant to ~~apply under~~ the National Gas Law ~~or~~ Rules ~~and BB Procedures~~.

~~These~~Whilst this BB Data Submission ~~Guide includes a summary of the requirements for submission of information under the BB Procedures~~ also, this BB Data Submission Guide does not form part of the BB Procedures, and is intended to be a more technical document for the specific data elements and validation rules that will apply to information provided for the Bulletin Board.

This BB Data Submission Guide also applies to the transportation service provider for a ~~transitional~~BB compression facility, registered with AEMO under the *Capacity Transfer and Auction Procedures* in accordance with section 91BRR of the Law.

1.3 Terminology and Definitions

The words, phrases and abbreviations set out below have the meanings set out opposite them when used in ~~these~~this BB Data Submission ~~Procedures~~Guide. Terms defined in the National Gas Law ~~or~~ the Rules ~~or BB Procedures~~ have the same meanings in ~~these~~this BB Data Submission ~~Procedures~~Guide unless otherwise specified in this clause. Those terms are intended to be identified in ~~these~~this BB Data Submission ~~Procedures~~Guide by italicising them, but failure to italicise a defined term does not affect its meaning.

1.3.1 Abbreviations

Abbreviation	Meaning
AEMO	Australian Energy Market Operator.
API	Application Programming Interface.
BB	The Natural Gas Services Bulletin Board.
CSV	Comma Separated Values. Stores tabular data (numbers and text) in plain-text form. Plain text means the content is a sequence of characters, with no data that has to be interpreted instead, as binary numbers.
FTP	File Transfer Protocol – a protocol that allows users to copy files between any systems they can reach on the network.
HTTPS	Hypertext Transfer Protocol over SSL.
JSON	JavaScript Object Notation.
RESTful	Representational State Transfer.
URL	Uniform Resource Locator.

1.3.2 Terms

Term	Meaning
Authorised User	A person authorised by a <i>BB reporting entity</i> to submit information to the Bulletin Board for that <i>BB reporting entity</i> .
<i>BB facility</i>	<i>BB facility within this document includes a BB facility as defined under Part 18 of the National Gas Rules and transitional compression facilities.</i>
<i>BB reporting entity</i>	<ul style="list-style-type: none"> <i>BB reporting entity within this document includes BB reporting entity as defined under Part 18 of the National Gas Rules and a transportation service provider for a transitional compression facility registered with AEMO under the Capacity Transfer and Auction Procedures in accordance with section 91BRR of the National Gas Law.</i>
Connection Point	A receipt point or delivery point or, in relation to a <i>transitional BB</i> compression facility, a compression delivery point or compression receipt point.
BB Procedures	The BB Procedures made under Part 18 of the National Gas Rules, <i>which comprise of the document named the BB Procedures and these BB Data Submission Procedures.</i>
Declared Transmission System	The Declared Transmission System (DTS), also known as the Victorian Transmission System (VTS), transports natural gas within Victoria, supplying the Melbourne metropolitan area and country areas.
e-Hub	API Web Portal and the API Gateway for both electricity and gas.
Rules	The National Gas Rules.
<i>Rollover</i>	<i>Indicates where the Rules allow for the use of default values.</i>

1.4 Interpretation of these Procedures

The following principles of interpretation apply to *thesethis* BB Data Submission *ProceduresGuide* unless otherwise expressly indicated:

(a) *TheseThis* BB Data Submission *ProceduresGuide* are subject to the principles of interpretation set out in Schedule 2 of the National Gas Law.

(b) References to time are references to Australian Eastern Standard Time.

(c) References to rules or sub-rules are to the relevant provision in the Rules.

(d) A reference to a change in capacity or quantity includes an increase or decrease.

~~(e) Where these Procedures contain a summary of a Rule in italics, the summary is for ease of reference only and does not form part of the Procedures.~~

2. Technical Overview

~~The provision of data from BB reporting entities to the BB in these~~ This BB Data Submission ~~Procedures are explained and~~ Guide is divided into two key areas:

- Data transfer formats which includes the ~~form,~~ data elements and validation rules, ~~and timing of submissions.~~
- Data transfer mechanisms to submit data to the BB, and how the success and failure of those submissions is communicated back to the submitter.

There are several methods available to submit data to the BB:

- BB website file upload: CSV file upload using the BB website upload page.
- ~~CSV file transfer using FTP: CSV file upload using FTP.~~
- RESTful web services: HTTP POST request using a RESTful interface.
- Participants who have been approved for the simplified registration process in accordance with the BB Procedures can submit via email to AEMO (bbo.@aemo.com.au)

Any of the above-mentioned methods may be used depending on the IT systems and requirements of the *BB reporting entity*, ~~except for submission via email which is available only to participants that have been approved for the simplified registration process in accordance with the BB Procedures.~~

All *BB reporting entities* submitting data to the BB must be registered in accordance with the Rules to be given access credentials to the BB.

Refer to Appendix A2 for how to submit transaction data in a RESTful style by a HTTPS POST request to Bulletin Board submission URLs.

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Transaction	Description	Reporting frequency	Submission cut-off times
	<u>BB reporting entity obligation under the Rules to provide data to AEMO</u>		
	<u>shippers with primary capacity</u>	<u>n and changes.</u>	
<u>Short term transaction</u>			
<u>Storage capacity transaction</u>			
<u>LNG Transaction</u>			
<u>LNG Shipment</u>			
<u>Gas field interest detail</u>			
<u>Gas field Interest</u>			
<u>Facility Development</u>			

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3.1 Facility and Connection Point Identifiers

This section describes the ~~changes to~~ naming conventions for Facility Identifiers, [Facility Development Identifiers](#), [Field Interest Identifiers](#) and Connection Point Identifiers ~~Facility identifiers~~.

3.1.1 ~~Facility Identifiers~~ [for Facilities, Facility Developments, and Field Interests](#)

~~Facility identifiers~~ ([FacilityIdIdentifiers](#) for facilities ([FacilityId](#)), field interests ([FieldInterestId](#)) and facility developments ([DevFacilityId](#)) used in transactions and reports subscribe to the following format:

```
5[2-8](?!0000)[0-9]{4}
```

Item	Description	Values
1	Energy type identifier	5 Gas
2	State code of element	2 NSW and ACT 3 Victoria 4 Queensland 5 South Australia 6 Western Australia 7 Tasmania 8 Northern Territory
3	State based unique identifying number	1 to 9999

~~Facility identifiers~~, [field interest and facility development Identifiers](#) have the following characteristics:

- ~~Facility identifiers~~ [Identifiers](#) ([FacilityIds](#), [DevFacilityIds](#) and [FieldInterestIds](#)) are defined and allocated by AEMO to *BB reporting entities* during the registration process.
- A *BB reporting entity* may report on multiple ~~Facility~~ Identifiers.

For example, [FacilityIdIdentifier](#) "520345" relates to an element (*BB reporting entity*) within NSW and ACT with a unique identifier of "0345" which is related to the gas industry.

3.1.2 Connection Point Identifiers

Connection Point Identifiers ([ConnectionPointId](#)) used in transactions and reports subscribe to the following format:

```
1[2-8](?!00000)[0-9]{5}
```

Item	Description	Values
1	Connection point identifier	1
2	State code of element	2 NSW and ACT 3 Victoria 4 Queensland 5 South Australia 7 Tasmania 8 Northern Territory
3	State based unique identifying number	1 to 99999

Connection Point Ids have the following characteristics:

- ConnectionPointIds are defined and allocated by AEMO to *BB reporting entities* during the registration process.
- Individual Connection Point Ids will be assigned to support each injected or withdrawn gas flow from *BB pipelines* and *transitionalBB compression facilities*.
- Individual Connection Point Ids may be assigned to *BB Production* and *BB Storage facilities* to support each injected or withdrawn gas flow, noting that these Connection Point Ids are not used in the submission process.
- *BB reporting entities* must report flows into their respective *facilitiesBB pipelines* as receipts, and flows out of their respective *facilitiesBB pipelines* as deliveries, for each Connection Point Id.
- The state code element for a Connection Point Id corresponds to its physical location. In the case of *BB pipelines* that traverse multiple states, state codes for Connection Point Ids along the line can differ from that of other Connection Point Id and the pipeline's Facility Id.
- The 00001-99999 unique identifying number of a Connection Point Id to be unique for each state. Thus two Connection Point Ids in different states can have the same identifying number.

For example:

- Connection Point Id "1301000" relates to a connection point within Victoria with the state based unique numeric identifier of "1000".
- Connection Point Id "1401000" relates to a connection point within Queensland with the state based unique numeric identifier of "1000".

4. Transaction Data Responsibilities and Submission Formats

This section provides details on the [form, requirements, and timing of submissions data elements](#) for gas transactions.

4.1 Short Term Capacity Outlook

Transaction name	SHORT_TERM_CAPACITY_OUTLOOK
Purpose	Provide on each gas day D-1 the BB facility operator's reporting entity's good faith estimate of the daily capacity of the BB facility for gas days D+1 to D+76.
Submission cut-off time	7:00 pm on gas day D-1
Rollover	Submitted values roll forward in the following manner: The short term capacity outlook data is deemed to be unchanged for each of the gas days specified in the most recent submission; and For subsequent gas days the short term capacity outlook data is deemed to be the same as the data for the last gas day included in the most recent short term capacity outlook submission.
Required by	The BB reporting entity for BB pipelines , BB production facilities , BB storage facilities and transitional BB compression facilities , LNG export facilities and LNG import facilities .
Exemptions	No exemptions will be given for this submission.
Notes	Submissions are made on gas day D-1 for gas days D +1 up to D +7+6 and can be updated on gas day D (for that gas day D). Further nominations submissions beyond D +7+6 may also be made. In the case that there is a material change the submission contains values for the current gas day (D) , the submission is deemed to value must be an intra-day submission updated . Intra-day submissions for the current gas day (D) will be accepted up to the end of gas day. AEMO will always publish the latest Capacity Outlook submission, however a timeline of historic submissions may be reportable.

4.1.1 Data elements

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	datetime	2018-09-23
Capacity Type	CapacityType	Capacity type may be: Storage: Holding capacity in storage for a BB Storage or LNG Import facility , or MDQ: Daily maximum firm capacity under the expected operating conditions.	Yes	varchar(1020)	STORAGE;MDQ
Outlook Quantity	OutlookQuantity	Capacity Outlook quantity in TJ to three decimal places. Three decimal places is	Yes	number(18,3)	200.531 190.2 (if the value is 190.200)

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		not required if the value has trailing zeros after the decimal place.			
Flow Direction	FlowDirection	<p>Indicates whether the capacity is for a <i>BB storage, LNG export, or LNG import facility's</i> capacity for injecting into or withdrawing from a BB pipeline, LNG processing or LNG import storage. Flow Direction can be:</p> <p>Receipt: The flow of gas <u>into</u> the <i>BB storage or LNG export facility</i>.</p> <p>Delivery: The flow of gas <u>out</u> of the <i>BB storage or LNG import facility</i>.</p> <p><u>Processed: Flow direction type used by LNG Export and LNG Import facilities. For LNG export, it represents the amount of gas that can be processed to a liquefied state on a gas day. For LNG import, it represents the amount of gas that can be received and processed into storage on a gas day.</u></p> <p><u>DeliveryLNGstor: Flow direction type used by LNG import facility. It represents the amount of gas that can be withdrawn from storage for processing to a gaseous state on a gas day.</u></p>	<p>Conditional</p> <p>This field is mandatory for <i>BB storage, LNG Export and LNG Import facilities</i> with MDQ Capacity</p> <p>Type value. Otherwise leave this blank.</p>	<p>char(8) varchar(20)</p>	<p>RECEIPT; DELIVERY; <u>PROCESSED;</u> <u>DELIVERYLNGSTOR</u></p>
Capacity Description	CapacityDescription	<p>Free text to describe the meaning of the capacity number provided, including, which could include a description of material factors that impact the capacity number and any other relevant information. This could be clarifying the 'name plate' or describing the limiting factor used to determine the 'name plate' capacity.</p> <p><u>For transitional BB pipelines this could be clarifying the relevance of the receipt and delivery locations and the flow direction of the capacity.</u></p> <p><u>For <i>BB compression facilities</i> this should include could be a description of a set of values describing the maximum daily capacity of the facility under a corresponding set of expected inlet and outlet pressures standard operating conditions.</u></p>	<p>Conditional</p> <p>This information is mandatory for <i>BB pipelines and transitional BB compression facilities</i>. Otherwise leave this blank.</p>	<p>varchar(8 001000)</p>	<p><u>Longford to Horsley Park via EGP</u></p>
Receipt Location	ReceiptLocation	<p>The Connection Point Id that best represents the receipt location. In conjunction with the Delivery location, this will indicate direction and location of the capacity.</p>	<p>Conditional</p> <p>This information is mandatory for <i>BB pipelines</i>. Otherwise leave this blank.</p>	<p>intBigint</p>	<p>1200001</p>
Delivery Location	DeliveryLocation	<p>The Connection Point Id that best represents the delivery location. In conjunction with the receipt location, this</p>	<p>Conditional</p> <p>This information is</p>	<p>intBigint</p>	<p>1300056</p>

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		will indicate direction and location of the capacity.	mandatory for BB pipelines. Otherwise leave this blank.		
Description	Description	Describe the reasons or provide comments directly related to the quantity and the times, dates, or duration for which those changes in quantities are expected to apply. This would be the 'outage type' and include the equipment involved. Include information on describing the location of transport routes affected for example, Eastern Gas Pipeline from Longford to Horsley Park. Where the capacity outlook affects multiple days for the same reason, these events are to be summarised as one line, with the summary applied across the impacted days.	Yes	varchar(2551000)	EGP from Longford to Horsley Park, compressor outage. 2 week outage.
Active Flag	ActiveFlag	Indicates whether the submission is active or not	No	Bit	1,0

Refer Appendix [A3A3](#) for Data submission examples.

4.1.2 Requirements

- Outlook Quantity values must be submitted in TJs accurate to three decimal places.
- ~~BB pipelines are required to submit capacities for each direction in which natural gas can be transported on the pipeline. An Outlook Quantity BB reporting entity must be submitted with update the information it has provided for a Capacity Description gas day if there is a material change and the Delivery Receipt Points. For complex pipeline must do so as soon as practicable~~
- ~~BB facilities, excluding BB large user facilities, must submit short term capacity outlooks for each corresponding nameplate rating for that facility.~~
- ~~For complex BB pipelines that involve more than two directions of flow, or multiple segments with different nameplate ratings, more than two capacity quantities may be required.~~
- ~~Transitional compression facilities are required to report capacity for the facility. The Outlook Quantity must be submitted with a Capacity Description, including expected inlet and outlet pressures. BB storage facilities are required to report capacity for receipts into, and deliveries from, the BB storage facility as well as the quantity of natural gas that can be held in storage.~~
 - o ~~BB compression facilities are required to report the expected daily capacity of the facility~~
 - o ~~BB Production facilities are required to report the daily capacity of the facility~~
 - o ~~LNG export facilities are required to report the amount of gas that can be processed to a liquefied state on a gas day as well as the amount of gas that can be received from a BB pipeline.~~
 - o ~~LNG import facilities are required to report the amount of gas that can be received and processed into storage on a gas day; the amount of gas that can be delivered into one or more BB pipelines; the amount~~

of gas that can be withdrawn from storage for processing to a gaseous state on a gas day and the amount of gas that can be held in storage at the LNG import facility.

- BB pipelines are required to submit a Capacity Description and the Receipt and Delivery Points as per the nameplate rating.
- BB compression facilities are required to submit a Capacity Description, including expected inlet and outlet pressures.
- Where a facility's capacity is reduced to zero, a zero value must be submitted.
- Submissions must only contain BB pipelines, BB production facilities, BB storage facilities-or transitional, BB compression facilities, LNG Export facilities or LNG Import facilities for which the BB reporting entity is registered.

4.1.3 Validation rules

- GasDate must conform to the date format YYYY-MM-DD.
- Submissions must only contain FacilityIds registered to the CompldCompany Id.
- Negative values are not accepted for the receipt or delivery Outlook Quantity.
- ~~Where a submission contains values for the current gas day (D), the submission is deemed to be an intra-day submission.~~
- ~~Intra-day submissions are accepted up to the end of the gas day.~~
- ~~Nomination and actual flow submissions for facilities will be validated against the capacity for that facility.~~
- ~~For pipelines the validations will be on the individual connection point capacities and flows~~
- ~~For production and compression validations will be the MDQ capacity against flows~~
- ~~For storage the validations will be against the MDQ capacity for Receipt and Delivery and Storage capacity for the held in storage volume~~
- ~~The source of the capacity information will be from Short Term Capacity Outlook for MDQ and Storage capacity~~
- ~~The source of the capacity to compare will be from connection point nameplate rating for pipelines.~~
- ~~A configurable parameter will be used to validate the submission, initially this will be~~
 1. ~~A soft warning will appear for submitting higher than capacity~~
 2. ~~Another soft warning will appear for submitting higher than capacity multiplied by 1.3 (1.3 being configurable)~~
 3. ~~Hard validation of 2 (configurable) times the capacity will be rejected~~
- ~~Where a file contains multiple entries for one or more facilities, the validation will only apply to the exception. Valid entries within a submission will be stored in the database.~~
 - For CSV file submissions, Description and Capacity Description with commas must be enclosed in double quotes or exclude any commas.
 - Users will be able to submit short term capacity outlook flow data for any future gas day data for any future gas day or up to 7 gas days in the past. Submissions can potentially be made further than 7 days in the past – users must contact the BB Operator in order to do this (bbo@aemo.com.au).
 - FlowDirection is case sensitive
 - ActiveFlag of 1 represents that submission is active and ActiveFlag of 0 represents that submission is inactive

- If active flag is not submitted, a value of ActiveFlag = 1 is assumed. To make a Short Term Capacity Outlook inactive, ActiveFlag = 0 must be included in the submission

4.2 Daily Production Flow

Transaction name	DAILY_PRODUCTION_AND_FLOW
Purpose	Provide on each gas day D+1, the BB facility operator's reporting entities daily gas flow data for receipts and deliveries and transitional BB compression facility operator's daily gas compression for gas day D-1.
Submission cut-off time	1:00 pm on gas day D.
Rollover	No rollover.
Required by	The BB reporting entity for BB pipelines, BB production facilities, BB storage facilities, <u>BB Compression facilities, Large Users, LNG Export facilities,</u> and transitional compression <u>LNG Import</u> facilities.
Exemptions	Two facilities connected to a single connection point may both be registered by AEMO. If one of these facilities is exempt from reporting flows for the connection point, submissions from that Facility Id in respect of the shared connection point are not mandatory.
Notes	Re-submissions and amendments on the initial submission are permitted. The BB Operator is notified if a re-submission is made after the submission cut-off time. AEMO always publish the latest actual flow submission. However, a timeline of historic submissions may be reportable.

4.2.1 Data elements and fields

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	datetime <u>Datetime</u>	2018-09-23
Actual Quantity	ActualQuantity	The actual quantity of gas that flowed into a BB facility or out of a BB facility, or The actual quantity of gas compressed by the transitional BB compression facility- <u>The actual quantity of gas processed into an LNG Import facility</u> <u>The actual quantity of gas that can be withdrawn from an LNG Import facility for processing</u>	Conditional This field is mandatory where Quality value is "OK"	number(18,3)	32.232 25.2 (if Actual Quantity is 25.200)
Connection Point Id	ConnectionPointId	A unique AEMO defined connection point identifier.	Conditional This information is mandatory for BB	int <u>Int</u>	1201001

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
				<i>pipelines.</i> Otherwise leave this <u>must be</u> left blank.	
Flow Direction	FlowDirection	Flow Direction can be: Receipt: The flow of gas <u>into</u> the <i>BB facility</i> , or Delivery: The flow of gas <u>out</u> of the <i>BB facility</i> . N/A: Zero gas flows have been measured for the gas date or data is unavailable. Compressed: The action performed by the <i>transitionalBB compression facility</i> <u>Processed: The amount of gas processed into storage on a day</u> <u>DeliveryLngStor: The amount of gas that can be withdrawn from storage for processing on a gas day</u>	Yes	char(8) <u>vchar(20)</u>	RECEIPT; DELIVERY; N/A; COMPRESSED <u>PROCESSED</u> <u>DELIVERYLINGSTOR</u>
Quality <u>Qualities</u>	Quality	Indicates whether meter data for the gas date is available. Quality can be: OK: Connection Point Actual Quantity data for gas flow into or out of the <i>BB facility</i> is based on meter data <u>or as agreed with AEMO.</u> Nil: Connection Point Actual Quantity data for gas flow into or out of the <i>BB facility</i> cannot be determined due to an operational issue.	Yes	char(3) <u>vchar(5)</u>	OK; NIL

4.2.2 Requirements

- Actual Quantity values represent physical gas flows and must be submitted in TJs accurate to three decimal places.
- Where there are zero gas flows at a connection point, an Actual Quantity of zero must be submitted with a flow direction ~~of 'N/A'~~ and Quality of 'OK' corresponding to the standing data flow direction of that connection point.
- A *BB pipeline* must provide gas flow for each *BB* connection point during a gas day.
- Where a *BB storage* ~~or *BB production facility*~~, has flows in both directions during a gas day, an aggregated Actual Quantity and Flow Direction must be submitted for the facility.

- A transitionalBB compression facility must provide the quantity of gas compressed by the facility during the gas day.
- A BB Production facility must provide the quantity of gas injected into one or more pipelines on the gas day
- A BB LNG Import facility must provide; the quantity of LNG received and processed into storage on a gas day; the quantity of LNG withdrawn from storage for processing to a gaseous state on a gas day; and the quantity of natural gas (in a gaseous state) injected into one or more pipelines from the LNG import facility on a gas day. An LNG Export facility must provide the quantity of gas consumed on the gas day
- A BB Large User facility must provide the quantity of gas consumed on the gas day
- Data only to be submitted by connection point for BB pipelines. All other submissions are at facility level.
- Where no available data exists for a connection point during the submission period due to an operational issue then a NULL Actual Quantity with a flow direction of 'N/A' and Quality of 'NIL' should be submitted. corresponding to the standing data flow direction of that connection point should be submitted and Quality of NIL. Alternatively, an estimate of the Actual Quantity can be provided.
- Where there are zero gas flows at a connection point, an Actual Quantity of zero must be submitted with a flow direction corresponding to the standing data flow direction of that connection point.
- For each connection point in a submission, check the connection point's 'Flow Direction' as defined in the Detailed Information Facility in the BB.
- A BB compression facility Actual Quantity must be provided as a compressed value.
- Submitted connection points must be registered against the Facility Id of the BB pipeline during the connection point registration process.
- Submissions must only contain BB pipelines, BB production facilities, BB storage facilities ~~or transitional, BB compression facility~~ facilities, BB large user facilities, LNG import facilities and LNG export facilities for which the BB reporting entity is registered.
- Where operational metering is not installed, the information to be provided to AEMO under this subdivision is to be determined by the BB reporting entity on a basis agreed by the BB reporting entity with AEMO

Data Submission examples are listed in Appendix A3-A3.

4.2.3 Validation rules

- Gas Date must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the *BB reporting entity*.
- Connection Point Ids must only be submitted for BB Pipelines and must be registered against the Facility Id.
- Actual Quantity values must represent physical gas flows or compressed gas.

- Negative Actual Quantity values are not accepted.
- Connection point Actual Quantity must be provided as a receipt or delivery value.
- ~~Transitional compression facility Actual Quantity must be provided as a compressed value.~~
- ~~Where there are zero gas flows at a connection point, an Actual Quantity of zero must be submitted with a flow direction of 'N/A' and Quality of 'OK'.~~
 - ~~For each connection point in a submission, check the connection point's 'Flow Direction' as defined in the Detailed Information Facility in the BB.~~
 - ~~Where no available data exists for a connection point during the submission period due to an operational issue then a NULL Actual Quantity with a flow direction of 'N/A' and Quality of 'NIL' should be submitted.~~
 - Connection point Actual Quantity is validated against the connection point nameplate rating.
 - Facility Actual Quantity is validated against the most recent Short Term Capacity Outlook for that facility and gas date. Large Users Actual Quantity is validated against the most recent Nameplate Rating for that facility and gas date.
 - For ~~parameters to validate storage~~ the validations will be against the MDQ Short Term Capacity Outlook capacity for Receipt and Delivery
 - The validation on Actual Flow is as follows:
 1. If the Actual Flow quantity is less than or equal to 5 TJ then the information will be accepted, otherwise
 - o A soft warning will appear for submitting an Actual Flow quantity that is higher than the capacity
 - o Another soft warning will appear for submitting an Actual Flow quantity that is higher than the capacity multiplied by 1.3
 - o The submission, ~~visit the Gas Bulletin Board FAQs,~~ will be rejected if the Actual Flow quantity is two times higher than the capacity (noting that it is possible to retrospectively update the short term capacity outlook if required)

4.3 Daily Storage

Transaction name	DAILY_STORAGE
Purpose	Provide on each gas day D+1, the actual quantity of natural gas held in each <i>BB storage facilities-facility and LNG import facility</i> for gas day D-4 <u>and any cushion gas quantity for BB storage facilities.</u>
Submission cut-off time	1:00 pm on gas day D.
Rollover	No Rollover.
Required by	The <i>BB reporting entity</i> for <i>BB storage and LNG Import facilities.</i>
Exemptions	No exemptions are given for this submission.

4.3.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	datetime	2018-09-23
Actual Quantity	ActualQuantity	The actual quantity of gas held in a <i>BB storage facility</i> or <i>LNG import facility</i> . <u>This volume of gas should exclude any cushion gas.</u>	Yes	number(18,3)	32.232 25.2 (if Actual Quantity is 25.200)
<u>Cushion Gas Quantity</u>	<u>CushionGasQuantity</u>	<u>The quantity of cushion gas held in a <i>BB Storage facility</i></u>	<u>Conditional</u>	<u>number(18,3)</u>	<u>32.232</u> <u>25.2 (if Cushion Gas is 25.200)</u>
			<u>This information is mandatory for <i>BB Storage facilities</i>.</u>		

Data Submission examples are listed in Appendix [A3.A3](#).

4.3.2 Requirements

- Actual HeldQuantity and Cushion Gas Quantity must both be submitted in TJs accurate to three decimal places.
- Submissions must only contain *BB storage* or *LNG Import* facilities for which the *BB reporting entity* is registered.

4.3.3 Validation rules

- Gas Date must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the Company Id.
- ~~Actual Quantity values greater than zero must be submitted in TJs accurate to three decimal places.~~
 - Negative Actual Quantity values are not accepted.
 - NegativeCushion Gas Quantity values are not accepted.
 - CushionGasQuantity validates against Storage Nameplate Rating ie: CushionGasQuantity must be less than or equal to facility Nameplate rating where CapacityType equals Storage

4.4 Connection Point Nameplate Rating

Transaction name	CP_NAMEPLATE_RATING
Purpose	<p>Provide nameplate ratings:</p> <p>For each <i>gate station connection point</i> owned, controlled, or operated by the <i>BB pipeline</i> operator and connected to each of its <i>BB pipelines</i>.</p> <p>For each <i>gate station connection point</i> connected to each of its <i>BB pipelines</i> which is not owned, controlled, or operated by the <i>BB pipeline</i> operator where the connection point nameplate rating has been provided to the <i>BB pipeline</i> operator by the facility who owns, controls, or operates the <i>connection point</i>.</p> <p>For each connection point on a <i>BB pipeline</i> or a <i>transitional BB compression facility</i>.</p>
Submission frequency	Annually
Submission cut-off time	31 March annually and whenever the standing capacity changes.
Rollover	No rollover.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines</i> and <i>BB compression facilities</i>
Exemptions	No exemptions are given for this submission.

4.4.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example/ Allowed values
Connection Point Id	ConnectionPointId	A unique AEMO defined connection point identifier.	Yes	int	1201001
Capacity Quantity	CapacityQuantity	Standing capacity quantity.	Yes	number(18,3)	32.232 25.2 (if the value is 25.200)
Effective Date	EffectiveDate	Gas day date that corresponding record takes effect. Any time component supplied will be ignored.	Yes	datetime	2018-03-23
Description	Description	Free text facility use is restricted to a description for reasons or comments directly related to the capacity quantity or the change in quantity provided in relation to a <i>BB facility</i> and the times, dates, or duration for which those quantities or changes in quantities are expected to apply.	No	varchar(255)	EGP from Longford to Horsley Park, compressor outage, 2 week outage.

Data Submission examples are listed in Appendix A3.

4.4.2 Requirements

- Capacity Quantity values must be submitted in TJs accurate to three decimal places.
- Submitted connection points must be registered against the Facility Id during the connection point registration process.

4.4.3 Validation rules

- Effective Date must conform to the date format YYYY-MM-DD.
 - Submissions must only contain Connection Point Ids connected to a [Pipeline](#) or [transitional compression facility](#) registered to the CompanyId.
 - A Capacity Quantity value of zero must be submitted if there is no [deliveryability to flow gas](#).
 - For CSV file submissions, Description and Capacity Description with commas must be enclosed in double quotes or exclude any commas.
- ~~• This is only required for gate stations, and information for a delivery point that is not a gate station should not be able to be submitted.~~

4.5 Linepack Capacity Adequacy

Transaction name	LINEPACK_CAPACITY_ADEQUACY
Purpose	Provide on any gas day D, the BB pipeline and transitional compression facility operator's Linepack Capacity Adequacy (LCA) flag for gas days D to D+2.
Submission cut-off time	7:00 pm on gas day D.
Rollover	Submitted values roll forward in the following manner: The last 3-day LCA Outlook provided for that BB pipeline or transitional compression facility is deemed to be unchanged. The <i>LCA flag</i> for the subsequent gas day is deemed to be the same as the <i>LCA flag</i> for D+2.
Required by	The <i>BB reporting entity</i> for BB pipelines and transitional compression facilities .
Exemptions	No exemptions are given for this submission.
Notes	Submissions made on gas day D can contain values for gas days D-1 to D+3 and can be updated on gas day D (for that gas day). Further submissions beyond D+3 may be made. Intra-day submissions for the current gas day (D) will be accepted up to the end of gas day. AEMO always publishes the latest LCA submission.

4.5.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	datetime	2018-09-23
Flag	Flag	<i>LCA flag</i> for a BB pipeline or transitional compression facility , categorised as red, amber, or green.	Yes	charvarchar(5)	RED; AMBER; GREEN
Description	Description	Free text facility use is restricted to a description for reasons or comments directly related to the change in the <i>LCA flag</i> and the times, dates, or	Yes	varchar(255800)	Compressor outage. 2 week outage.

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		duration for which those changes are expected to apply.			

LCA flags for *BB pipelines* are in the *BB Procedures*.

Data submission examples are listed in Appendix A3.

4.5.2 Validation Rules

- Gas Date must conform to the date format YYYY-MM-DD.
- Gas Date can be for D, D+1, or D+2.
- Submissions must only contain Facility Ids registered to the Company Id.
- Rolling forward - The last three-day Linepack Capacity Adequacy Outlook provided for that *BB pipeline* or *transitional BB compression facility* is deemed to be unchanged.
- Rolling forward - The Linepack Capacity Adequacy flag for the subsequent gas day is deemed to be the same as the Linepack Capacity Adequacy flag for D+2.
- For CSV file submissions, Description, and Capacity Description with commas must be enclosed in double quotes, or exclude any commas
- Users will be able to submit linepack capacity adequacy data for any future gas date.

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4.6 Medium Term Capacity Outlook

4.6.1 Transaction definition

Transaction name	MEDIUM_TERM_CAPACITY_OUTLOOK
Purpose	Provide details of any activity expected to affect the daily capacity of a <i>BB pipeline, BB production, or BB storage, BB Compression, LNG export or LNG import facility</i> in the next 12 months beyond the current short term capacity outlook.
Submission cut-off time	Not applicable as this report is ad hoc.
Rollover	No rollover.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines, BB production facilities, or BB storage, BB Compression, LNG export, and LNG import facilities</i> .
Exemptions	No exemptions are given for this submission.
Notes	<p>Medium Term Capacity Outlook (MTCO) is an adhoc submission with a start and end date and is typically only provided if there is a change of capacity materially different to nameplate rating on each day that the information is provided to <i>BB shippers</i> by a <i>facility operator</i> for the <i>BB facility</i>. A subsequent submission for all or part of the date range of a previous MTCO will replace the MTCO for that <i>BB facility</i>. Where a <i>BB reporting entity</i> submits a Facility Id with record blank values for the remaining fields, this clears previous Medium Term Capacity Outlook submissions where the From Gas Date is on or after the current gas day (D) for the <i>BB facility</i>.</p> <p><i>AEMO always publishes the latest Medium Term Capacity Outlook submission. However, a timeline of historic submissions may be reportable.</i></p> <p>Provide a meaningful description of the key reason for the change in capacity in the 'Description Field'.</p>

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4.6.2 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
From Gas Date	FromGasDate	Date of gas day. Any time component supplied is ignored will result in submission being rejected . The gas day is applicable under the pipeline contract or market rules.	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	datetime	2018-09-23
To Gas Date	ToGasDate	Date of gas day. Any time component supplied is ignored will result in submission being rejected . The gas day is that applicable under the pipeline contract or market rules.	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	datetime	2018-09-23
Capacity Type	CapacityType	Capacity type can be either: Storage: Holding capacity in storage, or MDQ: Daily maximum firm capacity (name plate) under the expected operating conditions adjusted for any facility that is 'mothballed', decommissioned or down-rated and / or cannot be recalled within 1 week, planned maintenance excepted. Reflects any long terms changes (greater than 12 months).	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	varchar(4020)	STORAGE; MDQ
Outlook Quantity	OutlookQuantity	Capacity Outlook quantity. Value in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	number(18,3)	200.531 190.2 (if the value is 190.200)
Flow Direction	FlowDirection	Indicates whether the capacity is for a BB storage facility's capacity for injecting into or into withdrawing	Conditional This field is mandatory for BB storage LNG	char(8)varchar(20)	RECEIPT; DELIVERY;

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		<p>from a BB pipeline facility. Gas Flow Direction can be:</p> <p>Receipt: The flow of gas <u>into</u> the BB storage facility; or LNG import facility</p> <p>Delivery: The flow of gas <u>out</u> of the BB storage facility or LNG export facility</p> <p>Processed: The flow direction type <u>only used for capacities</u>. For LNG export, it represents the amount of gas that can be processed to a liquefied state on a gas day. For LNG import, it represents the amount of gas that can be received and processed into storage on a gas day.</p> <p>Delivery LNG Storage: The flow direction type <u>only used for capacities</u>. For LNG import, it represents the amount of gas withdrawn for storage for processing to a gaseous state on a gas day.</p>	<p>export and LNG import facilities with a MDQ Capacity Type. Otherwise leave this blank.</p>		<p>PROCESSED; DELIVERY LNG STORAGE</p>
Capacity Description	CapacityDescription	Free text to describe the meaning of the capacity number provided, including a description of material factors that impact the capacity number and any other relevant information. This could be clarifying the 'name plate' or describing the limiting factor used to determine the 'name plate' capacity.	<p>Conditional</p> <p>This information is mandatory for BB pipeline and BB compression facility submissions with a MDQ Capacity Type. LNG export facilities may also enter this information although it is not mandatory.</p> <p>Otherwise leave this blank.</p>	varchar(8000)	
Receipt Location	ReceiptLocation	The Connection Point Id that best represents the receipt location. In conjunction with the Delivery location, this will indicate direction and location of the capacity.	<p>Conditional</p> <p>This information is mandatory for BB pipeline submissions with a MDQ Capacity Type. Otherwise leave this blank.</p>	int	1200001
Delivery Location	DeliveryLocation	The Connection Point Id that best represents the delivery location. In conjunction with the receipt location, this will indicate direction and location of the capacity.	<p>Conditional</p> <p>This information is mandatory for BB pipelines submissions with a MDQ Capacity Type. Otherwise leave this blank.</p>	int	1300056
Description	Description	Describe reasons or provide comments directly related to the outlook quantity and the times, dates, or duration for which those changes in quantities are expected to apply. This	<p>Conditional</p> <p>This field can be left blank if all other fields</p>	varchar(25500)	<p>EGP from Longford to Horsley Park compressor</p>

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		would be the 'outage type' and include the equipment involved. Include information describing the location of transport routes affected for example, Eastern Gas Pipeline from Longford to Horsley Park. Where the capacity outlook affects multiple days for the same reason, these events are to be summarised as one line, with the summary applied across the impacted days.	(excluding Facility Id) are also left blank.		outage. 2 week outage.

Data Submission example is listed in Appendix A3.

4.6.3 Requirements

- Outlook Quantity values must be submitted in TJs accurate to three decimal places.
- *BB pipelines* are required to submit capacities for each direction in which natural gas can be transported on the pipeline. An Outlook Quantity must be submitted with a Capacity Description and the Delivery and Receipt Points. Note that for complex pipeline facilities that involve more than two directions of flow, more than two capacities may be required.
- *BB storage facilities* are required to report capacity for receipts into, and deliveries from, the *BB storage facility* as well as the quantity of natural gas that can be held in storage.

[LNG export facilities are required to report the amount of gas that can be processed to a liquefied state on a gas day and the amount of gas that can be received from a pipeline on a gas day](#)

[LNG import facilities are required to report the amount of gas that can be received and processed into storage on a gas day; the amount of gas that can be held in storage; the amount of gas that can be withdrawn from storage for processing to a gaseous state on a gas day; and the amount gas that can be injected into one or more pipelines from the facility on a gas day](#)

- [BB Production facilities are required to report the expected daily capacity of the facility](#)
- [BB Compression facilities are required to report the expected daily capacity of the facility](#)
- Where a facility's capacity is reduced to zero, a zero value must be submitted.
- On submission of ~~ana~~ Medium Term Capacity Outlook, all existing submissions for a facility, where the start date is on or after the current gas day, shall be ~~deleted~~deactivated and replaced with the new submission. Active Medium Term Capacity Outlooks where the start date is before the current gas day and the end date is on or after the current gas day will be end dated to the current gas day-1.
- Participants shall have the ability to ~~delete~~deactivate all existing Medium Term Capacity Outlook submissions for a facility by submitting a record with the Facility ID and blank values for the remaining fields. This will

~~delete~~deactivate all Medium Term Capacity Outlook submissions for the specified facility where the start date is on or after the current gas day, and will also end date any active Medium Term Capacity Outlook submissions.

- Historical records where the Medium Term Capacity Outlook end date is before the current gas day cannot be modified or deleted.
- Submissions must only contain *BB pipelines, BB production facilities, or, BB storage, BB Compression, LNG export, or LNG import facilities* for which the *BB reporting entity* is registered.
- Active Flag is not submitted in Medium Term Capacity outlook

4.6.4 Validation rules

- GasDate must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the Company Id.
- Negative values are not accepted for the receipt or delivery Capacity Outlook Quantity.
- ~~Pipelines are required to submit capacities for each direction in which natural gas can be transported on the BB pipeline.~~
 - ~~Pipeline Outlook Quantity and BB compression facilities must be submitted with submit a Capacity Description and the Delivery and Receipt Points.~~
- ~~Storage facilities are required report capacity for receipts into, and deliveries from, the BB storage facility as well as the quantity of natural gas that can be held in storage.~~
 - All facilities must include Description in their submissions (unless submitting a file to deactivate all future MTCO's)
 - For CSV file submissions, Description and Capacity Description with commas must be enclosed in double quotes, or exclude any commas.

4.7 Nameplate Rating

Transaction name	NAMEPLATE_RATING
Purpose	Provide the nameplate rating of each <i>BB facility</i> annually or information about any planned permanent capacity reduction or expansion due to modification of the <i>BB facility</i> . With respect to production capacity, Standing Capacity should take long term field performance trends into account.
Submission frequency	Annually
Submission cut-off time	31 March and whenever the standing capacity changes.
Rollover	No rollover.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines, BB production facilities, BB storage facilities</i> and <i>transitional, BB compression, LNG export, LNG import, and Large user</i> facilities.
Exemptions	No exemptions are given for this submission.
Notes	<i>BB pipelines are required to submit capacities for each direction in which natural gas can be transported on the pipeline. A Capacity Quantity must be submitted with a Capacity Description and the Delivery and Receipt Locations. Note that for complex pipeline facilities that involve more than two directions of flow, more than two capacities may be required.</i>

Transitional compression facilities must provide a Capacity Description of other maximum quantities under other standard operating conditions including a description of those conditions including expected inlet and outlet pressures

Call AEMO if you need to reactivate a deactivated record

Once a record is inactive, MTCO must be manually changed to zero. STCO and Uncontracted Capacity Outlook Reports will automatically be set to zero.

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4.7.1 Data elements and fields

Data	Date field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Capacity Type	CapacityType	Capacity type can be either: Storage: Holding capacity in storage, or MDQ: Daily maximum firm capacity (name plate) under the expected operating conditions adjusted for any facility that is 'mothballed', decommissioned or down-rated and / or cannot be recalled within 1 week, planned maintenance excepted. Reflects any long terms changes (greater than 12 months), or The maximum quantity of gas that can be compressed by the <i>transitional BB compression facility</i> on a given day, without breaching operational limits.	Yes	varchar(1020)	STORAGE; MDQ
Capacity Quantity	CapacityQuantity	Standing capacity quantity.	Yes	number(18,3)	32.232 25.2 (if the value is 25.200)
Flow Direction	FlowDirection	<i>Indicates whether the capacity is for a BB storage facility's capacity for injecting into or withdrawing from a BB pipeline. Gas</i> Flow Direction can be: Receipt: The flow of gas <u>into</u> the <i>BB storage facility</i> ; or <i>LNG export facility</i> Delivery: The flow of gas <u>out</u> of the <i>BB storage facility</i> or <i>LNG import facility</i> <i>Processed: The flow direction type only used for capacities. For LNG export facilities, it represents the amount of gas that can be processed to a liquefied state on a gas day. For LNG import facilities, it represents the amount of gas that can be received and processed into storage on a gas day.</i>	Conditional This field is mandatory for BB storage <i>(MDQ Capacity Type)</i> , LNG Export and LNG Import facilities. Otherwise leave this blank.	varchar(10)varchar(20)	RECEIPT; DELIVERY; <u>PROCESSED</u> ; <u>DELIVERYLNGSTOR</u>

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Data	Date field name	Description	Mandatory	Data type	Example / Allowed values
		Delivery LNG Storage: The flow direction type only used for capacities. For LNG import facilities, it represents the amount of gas withdrawn from storage for processing to a gaseous state on a gas day.			
Capacity Description	CapacityDescription	<p>Free text to describe the meaning of the capacity number provided, including a description of material factors that impact the capacity number and any other relevant information.</p> <p>If applicable, transitionalBB compression facilities must also provide a Capacity Description of other maximum quantities under other standard operating conditions including a description of those conditions including expected inlet and outlet pressures.</p>	<p>Conditional</p> <p>This information is mandatory for BB pipelines and transitionalBB compression facilities. Otherwise leave this blank.</p>	varchar(8001000)	This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility
Receipt Location	ReceiptLocation	The Connection Point ID for the receipt location. In conjunction with the Delivery point, this will indicate direction and location of the capacity.	<p>Conditional</p> <p>This information is mandatory for BB pipelines. Otherwise leave this blank.</p>	int	1200001
Delivery Location	DeliveryLocation	The Connection Point ID for the delivery location. In conjunction with the Receipt point, this will indicate direction and location of the capacity.	<p>Conditional</p> <p>This information is mandatory for BB pipelines. Otherwise leave this blank.</p>	int	1300056
Effective Date	EffectiveDate	Gas day date that corresponding record takes effect. Any time component supplied will be ignored.	Yes	datetime	2018-03-23
Description	Description	Free text facility use is restricted to a description for reasons or comments directly related to the quantity or the change in quantity provided in relation to a BB facility (such as daily production data, nameplate rating, LCA flag , etc.), and the times, dates, or duration for which those quantities or changes in quantities are expected to apply.	Yes	varchar(2551000)	increase in nameplate pipeline capacity due to completion of VNIE Phase B

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Data	Date field name	Description	Mandatory	Data type	Example / Allowed values
Active Flag	ActiveFlag		No	Bit	0,1

Data submission examples are listed in Appendix A3.

4.7.2 Requirements

- Capacity Quantity must be submitted in TJs accurate to three decimal places.
- *BB pipelines* are required to submit capacities for each direction in which natural gas can be transported on the pipeline. A Capacity Quantity must be submitted with a Capacity Description and the Delivery and Receipt Points. Note that for complex pipeline facilities that involve more than two directions of flow, more than two capacities may be required.
- ~~Transitional~~*BB* compression facilities ~~must~~ submit a ~~Capacity Quantity with a Capacity Description for the facility.~~
 - ~~If applicable, transitional compression facilities capacity quantity, and they~~ must also provide a Capacity Description of other maximum quantities under other standard operating conditions including a description of those conditions: ~~including expected inlet and outlet pressures~~
 - ~~BB storage~~*production* facilities are required to ~~report~~submit the maximum ~~daily~~ capacity ~~for receipts into, and deliveries from, the BB storage facility as well as of the facility~~
 - BB Storage facilities are required to submit:
 - The quantity of natural gas that can be ~~held~~withdrawn from the gas storage facility for injection into another facility on a gas day
 - The quantity of natural gas that the gas storage facility can receive and process into storage on a gas day
 - The maximum quantity of natural gas that the gas storage facility can hold in storage.
 - LNG export facilities are required to report:
 - the quantity of natural gas that the facility can receive from a pipeline on a gas day
 - The quantity of natural gas that the facility can process to a liquefied state on a gas day.
 - LNG import facilities are required to report:
 - The quantity of LNG that the LNG import facility can receive and process into storage on a gas day
 - The quantity of LNG that the LNG import facility can hold in storage on a gas day
 - The quantity of LNG that can be withdrawn from storage for processing to a gaseous state on a gas day
 - The quantity of natural gas (in a gaseous state) that can be injected into one or more pipelines from the facility on a gas day
 - BB Large user facilities are required to report the quantity of natural gas that connections to the facility are capable of allowing to be delivered to the facility from a pipeline on a gas day.
 - Submissions must only contain *BB pipelines, BB production facilities, BB storage facilities* ~~or transitional~~*BB* compression facility, *LNG export, LNG import, or Large user facilities* for which the *BB reporting entity* is registered:

- Each submission must include a complete set of all nameplate rating capacities for the facility
- When entering a Nameplate, any previously entered Nameplate ratings that have later effective dates must also be updated as they will become applicable on their Effective Date

4.7.3 Validation rules

- Effective Date must conform to the date format YYYY-MM-DD.
 - Submissions must only contain Facility Ids registered to the Company Id.
 - Submissions must only contain FacilityIds for which the BB reporting entity is registered.
 - Negative values are not accepted for the receipt or delivery Capacity Quantity.
- ~~• Pipelines are required to submit capacities for each direction in which natural gas can be transported on the pipeline.~~
- Pipeline Capacity Quantity must be submitted with a Capacity Description and the Delivery and Receipt Points.
 - Transitional BB compression facilities must submit a Capacity Quantity with a Capacity Description for the facility.
- ~~• If applicable, transitional compression facilities must also provide a Capacity Description of other maximum quantities under other standard operating conditions including a description of those conditions~~
- ~~• Storage facilities are required to report capacity for receipts into, and deliveries from, the BB storage facility as well as the quantity of natural gas that can be held in storage.~~
- For CSV file submissions, Description and Capacity Description with commas must be enclosed in double quotes or exclude any commas.
 - All facilities must include a 'Description'
- ActiveFlag of 1 represents that Nameplate is active and ActiveFlag of 0 represents that Nameplate is inactive
 - If active flag is not submitted, a value of ActiveFlag = 1 is assumed (nameplate is active). To make a Nameplate inactive, ActiveFlag = 0 must be included in the submission
 - If ActiveFlag=0 then CapacityQuantity must be 0
 - Once a facility has been marked 'Inactive', you must contact AEMO to reinstate an 'Active' status

Forma

4.8 Nominations and Forecasts

Transaction name NOMINATIONS_AND_FORECASTS

Forma
Pattern

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Pattern

Purpose	For <i>BB pipelines</i> forming part of a Declared Transmission System, provide on each gas day, the aggregated scheduled injections and aggregated scheduled withdrawals at each controllable system point for D to D+2. For all other <i>BB facility operators reporting entities</i> , provide on each gas day D the aggregated nominated and forecast injections and aggregated nominated and forecast withdrawals for D to D+6.
Submission frequency	Daily
Submission cut-off time	For storage facilities providing nominations, one hour after the start of gas day D. For storage facilities providing forecast information and for other facilities in all cases, 9:00pm on gas day D
Rollover	No rollover.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines</i> , <i>BB production facilities</i> , <i>BB storage facilities</i> and transitional , <i>BB compression facilities</i> and LNG Import facilities .
Exemptions	Two facilities connected to a single connection point may both be registered by AEMO. If one of these facilities is exempt from reporting flows for the connection point, submissions from that Facility ID are not mandatory.
Notes	Submissions may contain data for the current gas day, which are intra-day changes to nominations and forecasts. Intra-day submissions for the current gas day (D) will be accepted up to the end of gas day. AEMO always publish the latest Delivery Nomination submission. However, a timeline of historic submissions may be reportable. All submission detail available in participants private report in the Markets Portal

4.8.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	datetime	2018-09-23
Facility ID	FacilityId	A unique AEMO defined Facility identifier.	Yes	intInt	520345
Connection Point ID	ConnectionPointId	A unique AEMO defined connection point identifier.	Conditional This information is mandatory for <i>BB pipelines</i> . Otherwise leave this blank.	intInt	1201001
Flow Direction	FlowDirection	Flow Direction can be: Receipt: The flow of gas <u>into</u> the <i>BB facility</i> , or Delivery: The flow of gas <u>out</u> of the <i>BB facility</i> . Compressed: The action performed by the transitional <i>BB compression facility</i>	Yes	char(8varchar(20))	RECEIPT; DELIVERY; COMPRESSED;

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Nomination Quantity	NominationQuantity	Delivery Nomination quantity, or Gas compression Nomination quantity.	Yes	number(18,3)	32.561 25.2 (if the value is 25.200)

4.8.2 Requirements

- Nomination Quantity values greater than zero must be submitted in TJs accurate to three decimal places.
- A *BB pipeline* must provide Nomination Quantities for each connection point.
- Where a *BB storage* or *BB production* facility has flows in both directions, an aggregated Nomination Quantity and Flow Direction must be submitted for the facility.
- A *transitionalBB compression facility* must provide Nomination Quantities of gas compressed by the facility
- Where there are zero receipts or zero deliveries at a connection point, a Nomination Quantity of zero must be submitted for the relevant direction.
- Where a connection point is unidirectional a Nomination Quantity for this direction, either as a receipt or delivery must be provided.
- Submitted connection points must be registered against the Facility ID during the connection point registration process.
- For each connection point in a submission, check the connection point's 'Flow Direction' as defined in the reference data. If the connection point is bi-directional, a submission must contain a Nomination Quantity for receipt and delivery.
- Submissions must only contain *BB pipelines, BB production facilities, BB storage facilities or transitionalBB compression facilities or LNG Import facilities* for which the BB reporting entity is registered.

Data submission examples are listed in Appendix A3.

4.8.3 Validation Rules

- GasDate must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the Company Id.
- Negative values are not accepted for the receipt or delivery Nomination Quantity.
- ~~For each connection point in a submission, check the connection point's 'Flow Direction' as defined in the reference data. If the connection point is bi-directional, a submission must contain a Nomination Quantity for receipt and delivery.~~
- ~~If the connection point is unidirectional, a Nomination Quantity must be provided for the direction.~~
- Users will be able to submit nomination and forecast flow data for any future gas date.

4.9 [Removed]

4.10 [Removed]

- [Connection Point ID's are only accepted where facility type is Pipeline](#)

4.11.4.9 Uncontracted Capacity Outlook

Transaction name	UNCONTRACTED_CAPACITY_OUTLOOK
Purpose	Provides information on: Uncontracted primary pipeline capacity on <i>BB pipelines, BB storage facilities, BB compression, BB Production and LNG import facilities</i> for the next 36 months. Note: This does not include <i>BB pipelines</i> in the Declared Transmission System. Uncontracted storage capacity on BB storage facilities for the next 12 months. Uncontracted primary compression capacity on transitional compression facilities for the next 12 months.
Submission cut-off time	By 7:00 pm on the last gas day of each month.
Rollover	Submitted values roll forward in the following manner: The Uncontracted Capacity Outlook data is deemed to be unchanged for each of the months specified in the most recent submission; and For subsequent months, the Uncontracted Capacity Outlook data is deemed to be the same as the data for the last month in the most recent Uncontracted Capacity Outlook submission.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines, BB storage facilities</i> and transitional, BB compression, BB Production and LNG import facilities.
Exemptions	No exemptions are given for this submission.

4.11.14.9.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Outlook Month	OutlookMonth	The outlook month.	Yes	int	04
Outlook Year	OutlookYear	The outlook year.	Yes	int	2018
Capacity Type	CapacityType	Capacity type can be either: Storage: Holding capacity in storage, for a BB Storage or LNG Import facility that its facility operator has available for sale or that it will have available for sale., or MDQ: Daily maximum firm capacity (name plate) under the expected operating conditions adjusted for any Facility that is 'mothballed', decommissioned or down-rated and /or cannot be recalled within 1 week, planned maintenance excepted. Reflects any long terms changes (greater than 12 months), or	Yes	varchar(1020)	STORAGE; MDQ

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		<p>The maximum quantity of gas that can be compressed by the <i>transitional-compression facility</i> on a given day, without breaching operational limits. MDQ: <u>Uncontracted primary firm capacity on the BB facility that the BB provider/operator has available for sale or that it will have available for sale.</u></p> <p><u>For a BB storage facility, this is primary firm capacity for storage in the BB storage facility, primary firm capacity for injection of gas into the BB storage facility, and primary firm capacity for withdrawal of gas from the BB storage facility.</u></p> <p><u>For an LNG import facility, the primary firm capacity for storage in the LNG import facility, and the primary firm capacity for regasification by the LNG import facility.</u></p> <p><u>For any other BB facility this is the primary firm capacity of the facility.</u></p>			
Outlook Quantity	OutlookQuantity	Daily average quantity across a month, expressed in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	Yes	number(18,3)	200.531 190.2 (if the value is 190.200)
Flow Direction	FlowDirection	Indicates whether the capacity is for a <i>BB storage facility's capacity for injecting into facility to inject into</i> or <i>withdrawing/withdraw</i> from a <i>BB pipeline</i> . Flow Direction can be: Receipt: The flow of gas <u>into</u> the <i>BB storage facility</i> , or Delivery: The flow of gas <u>out</u> of the <i>BB storage facility</i> .	Conditional This field is mandatory for <i>BB storage facilities</i> with MDQ Capacity Type value. Otherwise leave this blank.	char@varchar(20)	RECEIPT; DELIVERY
Capacity Description	CapacityDescription	Free text to describe the meaning of the capacity number provided, including a description of material factors that impact the capacity number and any other relevant information.	Conditional This information is mandatory for BB pipelines and <i>transitional/BB compression facilities</i> with a MDQ Capacity Type. Otherwise leave this blank.	varchar(8001000)	
Receipt Location	ReceiptLocation	The Connection Point Id for the receipt location. In conjunction with the Delivery point, this will indicate	Conditional This information is mandatory for <i>BB pipeline</i>	int@int	1200001

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Pattern

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Pattern

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		direction and location of the capacity.	submissions with a MDQ Capacity Type. Otherwise leave this blank.		
Delivery Location	DeliveryLocation	The Connection Point Id for the delivery location. In conjunction with the Receipt point, this will indicate direction and location of the capacity.	Conditional This information is mandatory for <i>BB pipelines</i> with a MDQ Capacity Type. Otherwise leave this blank.	int	1300056
Description	Description	Free text facility use is restricted to a description for reasons or comments directly related to the quantity or the change in quantity provided in relation to a <i>BB facility</i> (such as daily production data, nameplate rating, <i>LCA flag</i> , etc.), and the times, dates, or duration for which those quantities or changes in quantities are expected to apply.	No	varchar(2551000)	

4.11.24.9.2 Requirements

- Outlook Quantity must be submitted in TJs accurate to three decimal places.
- *BB pipelines* are required to submit capacities for each direction in which natural gas can be transported on the pipeline. An Outlook Quantity must be submitted with a Capacity Description and the Delivery and Receipt Points. Note that for complex pipeline facilities that involve more than two directions of flow, more than two capacities may be required.
- *BB storage facilities* are required to report capacity for receipts into, and deliveries from, the *BB storage facility* as well as the quantity of natural gas that can be held in storage.
- ~~Transitional-compression~~ *LNG Import facilities* are required to report capacity for regassification by the *LNG Import facility* as well as the capacity for storage in the facility.
- ~~BB Compression facilities and BB Production facilities~~ must submit an Outlook Quantity with a Capacity Description for report the capacity available in the facility.
- Where a facility's capacity is reduced to zero, a zero value must be submitted.
- Submissions must only contain *BB pipelines*, *BB storage facilities*, *BB Production facilities*, *LNG import*, or ~~transitional~~ *BB compression facilities* for which the *BB Reporting Entity* is registered.

Data submission examples are listed in Appendix A3.

4.11.34.9.3 Validation Rules

- GasDate must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the Company Id.
- Negative values are not accepted for the receipt or delivery Capacity Quantity.
- Capacities can be updated for a maximum of two months in the past
- For CSV file submissions, Description and Capacity Description with commas must be enclosed in double quotes, or exclude any commas.
- ~~Pipelines are required to submit capacities for each direction in which natural gas can be transported on the pipeline.~~
- Pipeline Outlook Quantity must be submitted with a Capacity Description and the Delivery and Receipt Points.
- ~~Transitional BB compression facilities~~ must submit an Outlook Quantity with a Capacity Description for the facility.
- ~~Storage facilities are required report capacity for receipts into, and deliveries from, the BB storage facility as well as the quantity of natural gas that can be held in storage. FlowDirection is case sensitive~~

4.124.10 BB Capacity Transaction

Transaction name	BB_CAPACITY_TRANSACTION
Purpose	Provides information on: <i>BB capacity transactions, excluding those concluded through the gas trading exchange.</i>
Submission cut-off time	The earlier of: 1 business day after the <i>trade date</i> for the <i>BB capacity transaction</i> ; and The day prior to the date on which the <i>service term</i> for the <i>BB capacity transaction</i> starts. Or where the <i>service term</i> for a <i>BB capacity transaction</i> starts on the <i>trade date</i> for the transaction, as soon as reasonably practicable on the <i>trade date</i> .
Rollover	No Rollover
Required by	The <i>BB reporting entity</i> for <i>BB transportation facility user</i> or <i>capacity transaction reporting agent</i>
Exemptions	No exemptions are given for this submission. All submission details available in participants private report in the Markets Portal

4.10.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values

4.12.11.1.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Trade Id	TradeId	A unique AEMO defined trade identifier.	Conditional This field is mandatory when updating an existing trade.	int	123456
Trade Date	TradeDate	Date the trade was made.	Yes	datetime	2018-03-01
From Gas Date	FromGasDate	Effective start date of the trade	Yes	datetime	2018-03-10
To Gas Date	ToGasDate	Effective end date of the trade	Yes	datetime	2018-03-20
Buyers Name	BuyerName	The descriptive name of the buyer	Yes	StringVarchar (255)	Star Energy
Sellers Name	SellerName	The descriptive name of the seller	Yes	StringVarchar (255)	Purple Energy
Facility Id	FacilityId	The unique AEMO defined Part 24 Facility Identifier	Conditional This information is mandatory for Part 24 facilities. Otherwise leave this blank.	int	520001
Facility Name	FacilityName	The descriptive name of the Facility that is not registered as a Part 24 Facility.	Conditional This information is mandatory for facilities that are NOT Part 24 facilities. Otherwise leave this blank.	StringVarchar (255)	Tamworth pipeline
Flow Direction	FlowDirection	The directional of flow relative to the general direction of the facility that is not registered as a Part 24 facility. Valid values are: NORTH NORTH_EAST NORTH_WEST EAST SOUTH SOUTH_EAST SOUTH_WEST WEST	Conditional This information is mandatory for facilities that are NOT Part 24 facilities. Otherwise leave this blank.	String (10)Varchar (255)	NORTH
Standard OTSA	StandardOTSA	Identify if a standard OTSA was used. Valid values: YES NO	Yes	StringVarchar (255)	YES

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
BB Transportation Service Type	BBTransportationServiceType	The transportation service type. Valid values: FORWARD_HAUL BACKHAUL PARK LOAN COMPRESSION	Yes	String (12Varchar (255))	FORWARD_HAUL;
Priority	Priority	The priority of the traded capacity	Yes	String (3Varchar (255))	Secondary firm
Receipt Point Id	ReceiptPointId	The unique AEMO defined Receipt Part 24 Service Point identifier. This is the point where gas is injected into the pipeline.	Conditional This information is mandatory for Part 24 facilities; and BB Transportation Service Type = FORWARD_HAUL, BACKHAUL or COMPRESSION.	int	3001
Delivery Point Id	DeliveryPointId	The unique AEMO defined Delivery Part 24 Service Point identifier. This is the point where gas is withdrawn from the pipeline.	Conditional This information is mandatory for Part 24 facilities; and BB Transportation Service Type = FORWARD_HAUL, BACKHAUL or COMPRESSION.	int	4001
Park Loan Point Id	ParkLoanPointId	The unique AEMO defined Part 24 Service Point identifier.	Conditional This information is mandatory for Part 24 facilities; and BB Transportation Service Type = PARK or LOAN.	int	5001
Quantity	Quantity	The traded maximum daily quantity (MDQ) (GJ/day).	Yes	int	240
MHQ	MHQ	The traded maximum hourly quantity (GJ/hour).	Yes	int	10
Price	Price	The price of the capacity traded (\$/GJ/day).	Yes	Decimal (18,2)	4.20
Price structure	PriceStructure	The price structure applied over the term of the trade.	No	varchar (255)	Variable
Price escalation mechanism	PriceEscalationMechanism	The price escalation mechanism applied over the term of the trade.	No	varchar (255)	10% per annum

Data submission example is listed in Appendix A3.

4.12.24.10.2 Validation rules

- Delivery and Receipt Point Id's must be valid within the registered list of service points in the transportation service point register established under Part 24 where the Facility Id is populated.
- Park Loan Point Id's must be valid within the registered list of service points in the transportation service point register established under Part 24 where the Facility Id is populated.
- Facility Name and Flow Direction must be populated where the Facility is not registered under Part 24.
- Quantity and MHQ must be greater than 0
- Price must be equal to or greater than 0.

4.13.4.11 Auction Curtailment Notice

Purpose	Provides a notice if an auction service is subject to curtailment in respect of a gas day.
Submission cut-off time	<p>In accordance with Rule 190A(2), an auction curtailment notice must be provided to AEMO as soon as practicable after the BB reporting entity becomes aware of the circumstances giving rise to the curtailment.</p> <p>In accordance with Rule 190A(3), a BB reporting entity must update the auction curtailment notice for its BB auction facility if the information provided in the auction curtailment notice is no longer accurate, including due to circumstances resulting in additional curtailment of the auction service for the gas day.</p>
Rollover	No Rollover
Required by	The <i>BB reporting entity for BB reporting entity for a BB auction facility.</i>
Exemptions	No exemptions are given for this submission.

4.13.14.11.1 Requirements

- The data elements and requirements for this submission are specified in the Capacity Transfer and Auction Interface Protocol, provided for by the Capacity Transfer and Auction Procedures.
- The transaction has been specified such that the facility operator for a Part 24 facility will provide this information in accordance the Capacity Transfer and Auction Interface Protocol.

4.14.4.12 Daily Auction Service Curtailment Information

Purpose	Provides information about the amount of curtailed quantity of an auction service for each BB Auction Facility.
Submission cut-off time	As specified in the Capacity Transfer and Auction Procedures
Rollover	No Rollover
Required by	<i>BB reporting entity for a BB auction facility.</i>
Exemptions	No exemptions are given for this submission.

4.14.14.12.1 Requirements

- The data elements and requirements for this submission are specified in the Capacity Transfer and Auction Interface Protocol, provided for by the Capacity Transfer and Auction Procedures.
- The report has been specified such that the facility operator for a Part 24 facility will provide this information in accordance with 21.2.1 of the Capacity Transfer and Auction Procedures.
- AEMO will aggregate RQs provided to AEMO in accordance with 21.2.1 of the Capacity Transfer and Auction Procedures for each BB auction facility for each gas day for publication on the BB as daily auction service curtailment information for each BB auction facility – this will be published as the ‘Revised Auction Quantities’ report.

4.13 Shipper List

Transaction name	SHIPPER LIST
Purpose	Provides details on the <i>BB shippers</i> who have contracted <i>primary firm capacity</i> on the <i>BB facility</i> . It includes the facility types: <ul style="list-style-type: none"> • <i>Primary Storage capacity</i> • <i>Primary Compression capacity</i> • <i>Primary Pipeline capacity</i>
Submission frequency	Ad hoc
Rollover	No rollover
Required by	<i>BB storage, BB compression, and BB pipeline facilities</i>
Exemptions	Not available
Notes	Historical versions will be available from the <u>effective date</u> .

4.13.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility ID	FacilityId	The unique AEMO defined Part 24 Facility Identifier	Yes	int	520001
Shipper Name	ShipperName	<i>BB shippers with primary firm capacity</i>	No	Varchar (200)	Tamworth pipeline
Effective Date	EffectiveDate	Gas date that corresponding record takes effect. Any time component supplied will be ignored.	Yes	datetime	2018-03-23

4.13.2 Requirements

- BB storage, BB compression, and BB pipeline facility types must report the list of BB shippers who have contracted primary firm capacity on the BB facility
- Each Submission must contain a complete list of Shippers for each effective date.
- If there are no BB shippers on a facility, a submission must still be made with ShipperName field empty
- If a future list is no longer relevant, a new submission with the same effective date and correct BB shippers should be submitted in it's place

4.13.3 Validation Rules

- Effective Date must conform to the date format YYYY-MM-DD.
- Submissions must only contain FacilityIds for which the BB reporting entity is registered.
- .

4.14 Short Term Transaction

Transaction name	<u>SHORT TERM TRANSACTION</u>
Purpose	<u>Provides information on: Short term gas transactions, excluding those concluded through the gas trading exchange.</u>
Submission cut off time	<u>The earlier of: 1 business day after the trade date for the BB short term gas transaction and The day prior to the day on which the supply period for the BB short terms gas transaction start. Or where the supply period for a BB short term gas transaction starts on the trade date for the transaction, as soon as reasonably practicable on the trade date.</u>
Rollover	<u>No Rollover</u>
Required by	<u>The gas seller of a BB short term gas transaction or reporting agent</u>
Exemptions	<u>No exemptions are given for this submission.</u>
Notes	<u>All submission detail available in participants private report in the Markets Portal</u>

4.14.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
<u>Transaction ID</u>	<u>TransactionID</u>	<u>A unique AEMO defined transaction identifier.</u>	<u>Conditional This field is mandatory when updating</u>	<u>Int</u>	<u>123456</u>

<u>Data</u>	<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Example / Allowed values</u>
			an existing trade.		
<u>Trade Date</u>	<u>TradeDate</u>	<u>Date the trade was made.</u>	<u>Yes</u>	<u>Date</u>	<u>2022-01-01</u>
<u>From Gas Date</u>	<u>FromGasDate</u>	<u>Effective start date of the trade</u>	<u>Yes</u>	<u>Date</u>	<u>2022-07-01</u>
<u>To Gas Date</u>	<u>ToGasDate</u>	<u>Effective end date of the trade</u>	<u>Yes</u>	<u>Date</u>	<u>2022-12-31</u>
<u>Buyer Name</u>	<u>BuyerName</u>	<u>The descriptive name of the buyer</u>	<u>Yes</u>	<u>Varchar (255)</u>	<u>Star Energy</u>
<u>Seller Name</u>	<u>SellerName</u>	<u>The descriptive name of the seller</u>	<u>Yes</u>	<u>Varchar (255)</u>	<u>Purple Energy</u>
<u>State</u>	<u>State</u>	<u>The state where the gas seller must supply the gas</u>	<u>Yes</u>	<u>Varchar (5)</u>	<u>VIC,NSW,QLD,SA,N T,TAS</u>
<u>Location</u>	<u>Location</u>	<u>The location at which the gas seller must supply the gas</u>	<u>Yes</u>	<u>Varchar (255)</u>	<u>Delivered at Horsley Park - 1202003</u>
<u>Transaction Type</u>	<u>TransactionType</u>	<u>The type of gas transaction. Can be one of: supply transaction; location based swap transaction; time based swap transaction; and location and time based swap transaction</u>	<u>Yes</u>	<u>Varchar (255)</u>	<u>Supply, Swap Location, Swap Time, Swap Both</u>
<u>Transaction Quantity</u>	<u>TransactionQuantity</u>	<u>The total maximum quantity of gas that may be sold or swapped (as applicable) under the transaction (in GJ)</u>	<u>Yes</u>	<u>Decimal (18,3)</u>	<u>10000.555</u>
<u>Maximum Daily Quantity</u>	<u>MaximumDailyQuantity</u>	<u>The maximum quantity that can be required to be supplied on any gas day in the supply period (in GJ/day)</u>	<u>Yes</u>	<u>Decimal (18,3)</u>	<u>0.555</u>
<u>Take Or Pay Quantity</u>	<u>TakeOrPayQuantity</u>	<u>The total minimum quantity of gas that may be sold or swapped (as applicable) under the transaction (in GJ)</u>	<u>Yes</u>	<u>Decimal (18,3)</u>	<u>5000.111</u>
<u>Price</u>	<u>Price</u>	<u>The transaction price (in \$/GJ)</u>	<u>Yes</u>	<u>Decimal (18,2)</u>	<u>10.45</u>
<u>Price Structure</u>	<u>PriceStructure</u>	<u>The price structure applied over the term of the trade.</u>	<u>No</u>	<u>Varchar (255)</u>	<u>Varies inline with ABC index</u>
<u>Price Escalation Mechanism</u>	<u>PriceEscalationMechanism</u>	<u>The price escalation mechanism applied over the term of the trade.</u>	<u>No</u>	<u>Varchar (255)</u>	<u>10% per annum</u>
<u>Cancelled</u>	<u>Cancelled</u>	<u>Cancelled Flag. Can be 1, transaction is cancelled or 0, transaction is not cancelled</u>	<u>No</u>	<u>Bit</u>	<u>0,1</u>

4.14.2 Requirements

- All fields are mandatory except for TransactionID, Cancelled, PriceStructure and PriceEscalationMechanism
- If the field Cancelled is omitted, it will default to '0'

- The location at which the *gas seller* must supply the gas should include reference to a receipt or delivery point or other location identifier

4.14.3 Validation Rules

- Trade Date must conform to the date format YYYY-MM-DD.
- From Gas Date must conform to the date format YYYY-MM-DD.
- To Gas Date must conform to the date format YYYY-MM-DD.
- State must be one of VIC,NSW,QLD,SA,NT,TAS
- State is case sensitive
- TransactionType must be one of Supply, Swap Location, Swap Time, Swap Both
- Transaction Type is case sensitive
- TransactionQuantity must be greater than or equal to zero
- MaximumDailyQuantity must be greater than or equal to zero
- TakeOrPayQuantity must be greater than or equal to zero
- Price must be greater than or equal to zero
- _____

4.15 Storage Capacity Transaction

Transaction name	STORAGE CAPACITY TRANSACTION
Purpose	Provides information on: <u>Storage capacity transactions</u>
Submission cut-off time	The earlier of: <u>1 business day after the <i>trade date</i> for the <i>BB capacity transaction</i>; and</u> <u>The day prior to the date on which the <i>service term</i> for the <i>BB capacity transaction</i> starts.</u> <u>Or where the <i>service term</i> for a <i>BB capacity transaction</i> starts on the <i>trade date</i> for the transaction, as soon as reasonably practicable on the <i>trade date</i></u>
Rollover	<u>No Rollover</u>
Required by	<u>The capacity seller of a <i>BB capacity transaction</i> or reporting agent</u>
Exemptions	<u>No exemptions are given for this submission.</u>
Notes	<u>All submission detail available in participants private report in the Markets Portal</u>

4.15.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
<u>Trade Id</u>	<u>TradeId</u>	<u>A unique AEMO defined trade identifier.</u>	<u>Conditional This field is mandatory when</u>	<u>Int</u>	<u>123456</u>

<u>Data</u>	<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Example / Allowed values</u>
			updating an existing trade.		
<u>Trade Date</u>	<u>TradeDate</u>	<u>Date the trade was made.</u>	<u>Yes</u>	<u>Date</u>	<u>2021-03-01</u>
<u>From Gas Date</u>	<u>FromGasDate</u>	<u>Effective start date of the trade</u>	<u>Yes</u>	<u>Date</u>	<u>2021-04-01</u>
<u>To Gas Date</u>	<u>ToGasDate</u>	<u>Effective end date of the trade</u>	<u>Yes</u>	<u>Date</u>	<u>2021-05-01</u>
<u>Buyer Name</u>	<u>BuyerName</u>	<u>The descriptive name of the buyer</u>	<u>Yes</u>	<u>Varchar 255</u>	<u>Star Energy</u>
<u>Seller Name</u>	<u>SellerName</u>	<u>The descriptive name of the seller</u>	<u>Yes</u>	<u>Varchar 255</u>	<u>Purple Energy</u>
<u>Facility Id</u>	<u>FacilityId</u>	<u>The unique AEMO defined Part 24 Facility Identifier representing the gas storage facility by means of which the service is provided</u>	<u>Yes</u>	<u>Int</u>	<u>520001</u>
<u>Priority</u>	<u>Priority</u>	<u>The priority of the traded capacity</u>	<u>Yes</u>	<u>Varchar 255</u>	<u>Secondary firm</u>
<u>Maximum Storage Quantity</u>	<u>MaximumStorageQuantity</u>	<u>The storage capacity (in GJ)</u>	<u>Yes</u>	<u>Decimal(18,3)</u>	<u>345.678</u>
<u>Injection Capacity</u>	<u>InjectionCapacity</u>	<u>The injection capacity, expressed as a maximum daily quantity or MDQ (in GJ/day)</u>	<u>Yes</u>	<u>Decimal(18,3)</u>	<u>4.333</u>
<u>Withdrawal Capacity</u>	<u>WithdrawalCapacity</u>	<u>The withdrawal capacity, expressed as a maximum daily quantity or MDQ (in GJ/day)</u>	<u>Yes</u>	<u>Decimal(18,3)</u>	<u>5.676</u>
<u>Price</u>	<u>Price</u>	<u>The price of the capacity traded (\$/GJ/day).</u>	<u>Yes</u>	<u>Decimal (18,2)</u>	<u>4.20</u>
<u>Price structure</u>	<u>PriceStructure</u>	<u>The price structure applied over the term of the trade.</u>	<u>Yes</u>	<u>Varchar(255)</u>	<u>Variable</u>
<u>Price escalation mechanism</u>	<u>PriceEscalationMechanism</u>	<u>The price escalation mechanism applied over the term of the trade.</u>	<u>No</u>	<u>Varchar(255)</u>	<u>10% per annum</u>
<u>Cancelled</u>	<u>Cancelled</u>	<u>Cancelled Flag. Can be 1, transaction is cancelled or 0.</u>	<u>No</u>	<u>Bit</u>	<u>1, 0, TRUE, FALSE</u>

<u>Data</u>	<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Example / Allowed values</u>
		transaction is not cancelled			

Data submission example is listed in Appendix A3.

4.15.2 Requirements

- All fields are mandatory except for Tradeld, Cancelled and PriceEscalationMechanism
- If the field Cancelled is omitted, it will default to '0'
-

4.15.3 Validation rules

- Trade Date must conform to the date format YYYY-MM-DD.
- From Gas Date must conform to the date format YYYY-MM-DD.
- To Gas Date must conform to the date format YYYY-MM-DD.
- Price must be greater than or equal to zero
- Maximum Storage Quantity must be greater than zero
- Injection Capacity must be greater than zero
- Withdrawal Capacity must be greater than zero
-

4.16 LNG Transaction

<u>Transaction name</u>	<u>LNG TRANSACTION</u>
<u>Purpose</u>	<u>Provides information on:</u> <u>Short term LNG Export transactions</u>
<u>Submission cut-off time</u>	<u>The earlier of:</u> <u>1 business day after the trade date for the short term LNG export transaction; and</u> <u>The day prior to the date on which the supply period for the short term LNG export transaction starts.</u>
<u>Rollover</u>	<u>No rollover</u>
<u>Required by</u>	<u>The gas seller of a short term LNG Export transaction or reporting agent</u>
<u>Exemptions</u>	<u>No exemptions are given for this submission.</u>
<u>Notes</u>	<u>All submissions available in participants private report in the Markets Portal</u>

4.16.1 Data elements and fields

<u>Data</u>	<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Example / Allowed values</u>
<u>Transaction Id</u>	<u>TransactionId</u>	<u>A unique AEMO defined transaction identifier.</u>	<u>Conditional</u> <u>This field is mandatory when updating an existing trade.</u>	<u>Int</u>	<u>123456</u>
<u>Facility Id</u>	<u>FacilityId</u>	<u>The LNG export facility at which the LNG is loaded</u>	<u>Yes</u>	<u>Int</u>	<u>520001</u>
<u>Trade Date</u>	<u>Trade Date</u>	<u>Date the trade was made.</u>	<u>Yes</u>	<u>Datetime</u>	<u>2022-04-01</u>
<u>Volume PJ</u>	<u>VolumePJ</u>	<u>The transaction quantity (in PJ's)</u>	<u>Yes</u>	<u>Number(10,3)</u>	<u>2.333</u>
<u>Selling Parties</u>	<u>SellingParties</u>	<u>The descriptive name of the seller</u>	<u>Yes</u>	<u>Varchar(200)</u>	<u>Star Energy</u>
<u>Buying Parties</u>	<u>BuyingParties</u>	<u>The descriptive name of the buyer</u>	<u>Yes</u>	<u>Varchar(200)</u>	<u>Purple Energy</u>
<u>Supply Period Start</u>	<u>SupplyPeriodStart</u>	<u>Effective start date of the transaction</u>	<u>Yes</u>	<u>Datetime</u>	<u>2022-05-01</u>
<u>Supply Period End</u>	<u>SupplyPeriodEnd</u>	<u>Effective end date of the transaction</u>	<u>Yes</u>	<u>Datetime</u>	<u>2022-05-31</u>
<u>FOB Price</u>	<u>FOBPrice</u>	<u>The free on board price for the LNG (in \$/GJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>12.321</u>
<u>Price Structure</u>	<u>PriceStructure</u>	<u>The price structure applied over the term of the trade.</u>	<u>Yes</u>	<u>Varchar(255)</u>	<u>Variable</u>
<u>Cancelled</u>	<u>Cancelled</u>	<u>Cancelled Flag. Can be 1, transaction is cancelled or 0, transaction is not cancelled</u>	<u>No</u>	<u>Bit</u>	<u>0,1</u>

4.16.2 Requirements

- All fields are other than TransactionId and Cancelled are mandatory
- FacilityId must be of type 'LNGExport'
- FOBPrice is determined using assumptions, where applicable, about matters such as future index values or rates provided for in the BB Procedures
- If the field Cancelled is omitted, it will default to '0'
-

4.16.3 Validation Rules

- Trade Date must conform to the date format YYYY-MM-DD
- SupplyPeriodStart must conform to the date format YYYY-MM-DD
- SupplyPeriodEnd must conform to the date format YYYY-MM-DD
- Volume must be greater than or equal to zero

- FOBPrice must be greater than or equal to zero

4.17 LNG Shipment

Transaction name	<u>LNG SHIPMENT</u>
Purpose	<u>Provides information on: LNG Import and Export Shipments</u>
Submission frequency	<u>Ad hoc</u>
Submission cut-off time	<u>For an LNG export facility data must be provided to AEMO no later than the business day after completion of loading. For an LNG import facility data must be provided to AEMO no later than the business day after commencement of unloading.</u>
Rollover	<u>No rollover</u>
Required by	<u>The BB reporting entity for the LNG facility</u>
Exemptions	<u>No exemptions are given for this submission.</u>
Notes	<u>All submissions available in participants private report in the Markets Portal</u>

4.17.1 Data elements and fields

<u>Data</u>	<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Example / Allowed values</u>
<u>Facility ID</u>	<u>FacilityId</u>	<u>The unique AEMO defined Part 24 Facility Identifier</u>	<u>Yes</u>	<u>int</u>	<u>520001</u>
<u>Transaction ID</u>	<u>TransactionId</u>	<u>A unique AEMO defined transaction identifier.</u>	<u>No</u>	<u>Int</u>	<u>123456</u>
<u>Shipment Date</u>	<u>ShipmentDate</u>	<u>For LngImport the date unloading commences at the LNG import facility For LngExport the shipment departure date.</u>	<u>Yes</u>	<u>Datetime</u>	<u>2022-12-10</u>
<u>Volume PJ</u>	<u>VolumePJ</u>	<u>The volume of the transaction (in PJ)</u>	<u>Yes</u>	<u>Number(10,3)</u>	<u>3.564</u>

4.17.2 Requirements

- FacilityId must be a registered LngExport or LngImport facility
- The ShipmentDate refers to the date unloading commences at the LNG import facility or the shipment departure date for an LNG export facility.

4.17.3 Validation Rules

- ShipmentDate must conform to the date format YYYY-MM-DD.
- The volume must be greater than or equal to zero or less than or equal to 20PJ's

4.18 Gas Field Interest Detail

Transaction name	<u>GAS FIELD INTEREST DETAIL</u>
Purpose	<u>To provide information about a <i>BB field interest</i></u>
Submission frequency	<u>Submission required on registration, on change, and annually thereafter, not later than 40 business days after the <i>Annual Reporting Date</i> for the <i>BB field interest</i></u>
Rollover	<u>No rollover</u>
Required by	<u>The <i>BB Reporting entity</i> for a <i>BB field interest</i></u>
Exemptions	<p><u>Exemptions exist for <i>BB field's</i> located in the offshore area of the Northern Territory where:</u></p> <p><u>(a) Gas produced from the <i>BB field</i> is supplied exclusively to an <i>LNG export facility</i> that is an <i>exempt NT facility</i>, or</u></p> <p><u>(b) In the case of a <i>BB field</i> that has not commenced production, the <i>field owner</i> expects on reasonable grounds that gas to be produced from the <i>BB field</i> will be supplied exclusively to an <i>LNG export facility</i> that is an <i>exempt NT facility</i>.</u></p>
Notes	

4.18.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
<u>Field Interest Id</u>	<u>FieldInterestId</u>	<u>The unique AEMO defined Part 18 Facility Identifier</u>	<u>Yes</u>	<u>Int</u>	<u>123456</u>
<u>Effective Date</u>	<u>EffectiveDate</u>	<u>The date the record takes effect</u>	<u>Yes</u>	<u>Datetime</u>	<u>2022-06-23</u>
<u>Petroleum Tenements</u>	<u>PetroleumTenements</u>	<u>Information to identify the petroleum tenements of the <i>BB field interest</i></u>	<u>Yes</u>	<u>Varchar(300)</u>	<u>Petroleum Tenement 3A</u>
<u>Processing Facilities</u>	<u>ProcessingFacilities</u>	<u>The processing facility used to process gas from the field</u>	<u>No</u>	<u>Varchar(300)</u>	<u>Existing Facilities</u>
<u>Resource Classification</u>	<u>ResourceClassification</u>	<u>Classification of the resources in the field as <i>Conventional</i> or <i>Unconventional</i></u>	<u>Yes</u>	<u>Varchar(100)</u>	<u>Conventional / Unconventional</u>
<u>Resource Sub Classification</u>	<u>ResourceSubClassification</u>	<u>Any further sub-classification of the resources in the field</u>	<u>Yes</u>	<u>Varchar(100)</u>	<u>Eg: Coalbed methane, basin-centered gas, tight gas, tight oil, gas hydrates, natural bitumen, oil shale</u>
<u>Nature of Gas</u>	<u>NatureofGas</u>	<u>The nature of the gas in the field</u>	<u>Yes</u>	<u>Varchar(100)</u>	<u>Eg: Dry gas, gas condensate or gas found in conjunction with oil</u>
<u>Tenement Share</u>	<u>TenementShare</u>	<u>It's <i>BB field interest</i> in the petroleum tenements (as a percentage);</u>	<u>Yes</u>	<u>Numeric(10,3)</u>	<u>50.544</u>

4.18.2 Requirements

- When entering a new submission with an earlier effective date than a previous submission, participant must update all future records as these records will apply on their effective date

4.18.3 Validation Rules

o Submissions must only contain FieldInterestId's for which the submitter is the Responsible Participant

- The EffectiveDate must be greater than or equal to today
- TenementShare must be between 0 and 100 inclusive.
- Resource Classification must be either Conventional or Unconventional (not case sensitive)

4.19 Gas Field Interest

Transaction name	<u>GAS FIELD INTEREST</u>
Purpose	<u>To provide reserve and resource information about a BB field interest</u>
Submission frequency	<u>Submission required on registration and annually thereafter, not later than 40 business days after the Annual Reporting Date for the BB field interest. The reserves and resources estimates must also be updated if:</u> <u>A) The total amount of those reserves and resources estimates across all its BB field interests is no longer accurate by 50 PJ or more (up or down) as the result of:</u> <u>(i) A percentage change in any of its BB field interests;</u> <u>(ii) A re-evaluation of reserves or resources; or</u> <u>(iii) Discoveries of new reserves or resources including through extension of a field's proved area; or</u> <u>B) A revised estimate of 1P reserves, 2P reserves, 3P reserves or 2C resources is published by the BB reporting entity or provided by the BB reporting entity to a state, federal or territory government department or government agency or a securities exchange (including the Australian Securities Exchange).</u>
Rollover	<u>No rollover</u>
Required by	<u>The BB Reporting entity for a BB field interest</u>
Exemptions	<u>Exemptions exist for BB field's located in the offshore area of the Northern Territory where:</u> <u>(a) Gas produced from the BB field is supplied exclusively to an LNG export facility that is an exempt NT facility; or</u> <u>(b) In the case of a BB field that has not commenced production, the field owner expects on reasonable grounds that gas to be produced from the BB field will be supplied exclusively to an LNG export facility that is an exempt NT facility.</u>
Notes	

4.19.1 Data elements and fields

<u>Data</u>	<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Example / Allowed values</u>
<u>Field Interest ID</u>	<u>FieldInterestId</u>	<u>The unique AEMO defined Part 18 Facility Identifier</u>	<u>Yes</u>	<u>Int</u>	<u>123456</u>

<u>Data</u>	<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Example / Allowed values</u>
<u>Effective Date</u>	<u>EffectiveDate</u>	<u>The date the record takes effect</u>	<u>Yes</u>	<u>DateTime</u>	<u>2021-06-08</u>
<u>Developed Reserve 1P</u>	<u>DevelopedReserve1P</u>	<u>Estimate of BB Field Interest's 1P developed reserves (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>123.456</u>
<u>Developed Reserve 2P</u>	<u>DevelopedReserve2P</u>	<u>Estimate of BB Field Interest's 2P developed reserves (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>123.456</u>
<u>Developed Reserve 3P</u>	<u>DevelopedReserve3P</u>	<u>Estimate of BB Field Interest's 3P developed reserves (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>123.456</u>
<u>Undeveloped Reserve 1P</u>	<u>UndevelopedReserve1P</u>	<u>Estimate of BB Field Interest's 1P undeveloped reserves (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>123.456</u>
<u>Undeveloped Reserve 2P</u>	<u>UndevelopedReserve2P</u>	<u>Estimate of BB Field Interest's 2P undeveloped reserves (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>123.456</u>
<u>Undeveloped Reserve 3P</u>	<u>UndevelopedReserve3P</u>	<u>Estimate of BB Field Interest's 3P undeveloped reserves (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>123.456</u>
<u>Resources 2C</u>	<u>Resources2C</u>	<u>Estimate of BB Field Interest's 2C resources (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>123.456</u>
<u>Production Change Reserve 2P</u>	<u>ProductionChangeReserve2P</u>	<u>Estimate of the total movement in the BB field interest's 2P reserves due to production of gas (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>-123.456</u>
<u>Proved Area Extension Reserve 2P</u>	<u>ProvedAreaExtensionReserve2P</u>	<u>Estimate of the total movement in the BB field interest's 2P reserves due to the extension of a field's proved area (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>123.456</u>
<u>Percentage Change Reserve 2P</u>	<u>PercentageChangeReserve2P</u>	<u>Estimate of the total movement in the BB field interest's 2P reserves due to a percentage change in the BB field interest (PJ)</u>	<u>Yes</u>	<u>Numeric(10,3)</u>	<u>123.456</u>
<u>Upward Revision From 3P Reserve To 2P</u>	<u>UpwardRevisionFrom3PReserveTo2P</u>	<u>Estimate of the total movement in the BB field interest's 2P reserves due to the reclassification of 3P reserves or resources to 2P reserves (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>123.456</u>
<u>Downward Revision From 2P Reserve To 3P</u>	<u>DownwardRevisionFrom2PReserveTo3P</u>	<u>Estimate of the total movement in the BB field interest's 2P reserves due to the reclassification of 2P reserves to 3P reserves or resources (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>-123.456</u>
<u>Other Revisions Reserve 2P</u>	<u>OtherRevisionsReserve2P</u>	<u>Estimate of the total movement in the BB field interest's 2P reserves due to other revisions (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>123.456</u>
<u>Maturity Sub Class 2P</u>	<u>MaturitySubClasses2P</u>	<u>The project maturity sub-class for the 2P reserves classified in accordance with SPE-PRMS</u>	<u>Yes</u>	<u>Varchar(100)</u>	<u>Eg: On production. Approved for development. Justified for development</u>

<u>Data</u>	<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Example / Allowed values</u>
<u>Maturity Sub Class 2C</u>	<u>MaturitySubClass2C</u>	<u>The project maturity sub-class for the 2C resources classified in accordance with SPE-PRMS</u>	<u>Yes</u>	<u>Varchar(100)</u>	<u>Eg: Development pending, Development on hold, Development unclarified, Development not viable</u>
<u>Min Date 2P</u>	<u>MinDate2P</u>	<u>The earliest estimate for the production of the 2P reserves</u>	<u>Yes</u>	<u>Datetime</u>	<u>2022-10-01</u>
<u>Max Date 2P</u>	<u>MaxDate2P</u>	<u>The latest estimate for the production of the 2P reserves</u>	<u>Yes</u>	<u>Datetime</u>	<u>2022-12-01</u>
<u>Min Date 2C</u>	<u>MinDate2C</u>	<u>The earliest estimate for the production of the 2C reserves</u>	<u>Yes</u>	<u>Datetime</u>	<u>2022-10-01</u>
<u>Max Date 2C</u>	<u>MaxDate2C</u>	<u>The latest estimate for the production of the 2C reserves</u>	<u>Yes</u>	<u>Datetime</u>	<u>2022-12-01</u>
<u>Expected Barriers 2C</u>	<u>ExpectedBarriers2C</u>	<u>The list of any barriers to commercial recovery of the 2C resources</u>	<u>Yes</u>	<u>Varchar(400)</u>	<u>Price Forecast</u>
<u>Increase Reserve Estimate Price 2P</u>	<u>IncreaseReserveEstimatePrice2P</u>	<u>Estimate of the change in the 2P reserves estimate arising from a 10% increase in the gas price assumptions used to prepare the estimate (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>1.234</u>
<u>Decrease Reserve Estimate Price 2P</u>	<u>DecreaseReserveEstimatePrice2P</u>	<u>Estimate of the change in the 2P reserves estimate arising from a 10% decrease in the gas price assumptions used to prepare the estimate (PJ)</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>-1.234</u>
<u>Resources Estimate Method</u>	<u>ResourcesEstimateMethod</u>	<u>The resources assessment method used to prepare the reserves and resources estimates using categories in SPE-PRMS</u>	<u>Yes</u>	<u>Varchar(200)</u>	<u>Eg: Deterministic, Geostatistical and probabilistic</u>
<u>Conversion Factor Qty TCF To PJ</u>	<u>ConversionFactorQtyTCFToPJ</u>	<u>The conversion factor used to convert quantities measured in trillions of cubic feet to PJ</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>909.000</u>
<u>Economic Assumption</u>	<u>EconomicAssumption</u>	<u>The key economic assumptions in the forecast case used to prepare the reserves and resources estimates and the source of the assumptions</u>	<u>Yes</u>	<u>Varchar(400)</u>	<u>Gas price of \$10</u>
<u>Update Reason</u>	<u>UpdateReason</u>	<u>The reason for the update</u>	<u>Yes</u>	<u>Varchar(400)</u>	<u>Annual Update</u>
<u>Prepared By</u>	<u>PreparedBy</u>	<u>The name of the qualified gas industry professional who prepared, or supervised the preparation of the reserves and resources estimates</u>	<u>Yes</u>	<u>Varchar(100)</u>	<u>Joe Brown</u>
<u>Preparation Independence Statement</u>	<u>PreparationIndependenceStatement</u>	<u>Whether the qualified gas industry professional who prepared, or supervised the preparation of reserves and resources estimates is independent of the BB reporting entity</u>	<u>Yes</u>	<u>Varchar(3)</u>	<u>YES; NO</u>

4.19.2 Requirements

- MaturitySubClass2P, MaturitySubClass2C, MinDate2P, MaxDate2P, MinDate2C, MaxDate2C and ExpectedBarriers2C are only required where the sum of 2P reserves and 2C resources in the BB field is greater than 50 PJ
- If submitting for the first time, enter 0 for the following fields: ProductionChangeReserve2P; ProvedAreaExtensionReserve2P; PercentageChangeReserve2P; UpwardRevisionFrom3PReserveTo2P; DownwardRevisionFrom2PReserveTo3P; OtherRevisionsReserve2P
- All fields are mandatory
- When entering a new submission with an earlier effective date than a previous submission, participant must update all future records as these records will apply on their effective date

4.19.3 Validation Rules

- FieldInterestId must be a registered FieldInterestId
- Submissions must only contain FieldInterestId's for which the submitter is the Responsible Participant
- DevelopedReserve1P must be >= zero
- DevelopedReserve2P must be >= zero
- DevelopedReserve3P must be >= zero
- UndevelopedReserve1P must be >= zero
- UndevelopedReserve2P must be >= zero
- UndevelopedReserve3P must be >= zero
- Resources2C must be >= zero
- ProductionChangeReserve2P must be <= zero
- ProvedAreaExtensionReserve2P must be >= zero
- UpwardRevisionFrom3PReserveTo2P must be >= zero
- DownwardRevisionFrom2PReserveTo3P must be <= zero
- ConversionFactorQtyTCFToPJ must be > zero
- PreparationIndependenceStatement must be either 'YES' or 'NO'

4.20 Facility Development

Transaction name	FACILITY DEVELOPMENT
Purpose	To provide information on <i>facility development projects</i>
Submission frequency	Submission required on registration of the <i>facility development project</i> , annually, by the date specified in the BB Procedures and whenever the information is no longer accurate.
Rollover	None

Required by *The BB reporting entity for the facility development project*

Exemptions

Notes

4.20.1 Data elements and fields

<u>Data</u>	<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Example / Allowed values</u>
<u>Development Facility ID</u>	<u>DevFacilityID</u>	<u>The unique AEMO defined Development Facility Identifier</u>	<u>Yes</u>	<u>Int</u>	<u>123456</u>
<u>Effective Date</u>	<u>EffectiveDate</u>	<u>The date the changes take effect</u>	<u>Yes</u>	<u>Datetime</u>	<u>2023-12-01</u>
<u>Proposed Name</u>	<u>ProposedName</u>	<u>The proposed name of the facility development</u>	<u>No</u>	<u>Varchar(100)</u>	<u>Austral LNG</u>
<u>Capacity From</u>	<u>CapacityFrom</u>	<u>The lower estimate of Nameplate Capacity. For LNG import terminals, how much gas can be delivered to a pipeline on a day (TJ/day). For LNG Export terminals, how much gas can be received from a pipeline on a day (TJ/day). For Storage facilities, how much gas it can hold in storage (TJ). For Production facilities, how much gas can be delivered to a pipeline on a day (TJ/day). For a Large User, how much gas can be received from a pipeline on a day (TJ/day). For a pipeline, the maximum amount that can flow through the pipeline in the primary forward haul direction of the pipeline on a day (TJ/day).</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>500.365</u>
<u>Capacity To</u>	<u>CapacityTo</u>	<u>The lower estimate of Nameplate Capacity. For LNG import terminals, how much gas can be delivered to a pipeline on a day (TJ/day). For LNG Export terminals, how much gas can be received from a pipeline on a day (TJ/day). For Storage facilities, how much gas it can hold in storage (TJ). For Production facilities, how much gas can be delivered to a pipeline on a day (TJ/day). For a Large User, how much gas can be received from a pipeline on a day (TJ/day). For a pipeline, the maximum amount that can flow through the pipeline in the primary forward haul direction of the pipeline on a day (TJ/day).</u>	<u>Yes</u>	<u>Numeric(18,3)</u>	<u>600.365</u>
<u>Planned Commissioning From</u>	<u>PlannedCommissioningFrom</u>	<u>The date commissioning is expected to start</u>	<u>Yes</u>	<u>Datetime</u>	<u>2023-12</u>

<u>Data</u>	<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Example / Allowed values</u>
<u>Planned Commission To</u>	<u>PlannedCommissionTo</u>	<u>The date commissioning is expected to finish</u>	<u>Yes</u>	<u>Datetime</u>	<u>2024-03</u>
<u>Development Stage</u>	<u>DevelopmentStage</u>	<u>The BB reporting entity's assessment of the stage of development of the facility development project. Must be one of: PROPOSED; COMMITTED; CANCELLED; ENDED</u>	<u>Yes</u>	<u>Varchar(200)</u>	<u>PROPOSED; COMMITTED; CANCELLED; ENDED</u>
<u>Location</u>	<u>Location</u>	<u>The location of the facility</u>	<u>Yes</u>	<u>Varchar(200)</u>	<u>Sydney</u>
<u>Comments</u>	<u>Comments</u>	<u>Provide additional comments about the facility such as whether a pipeline is bidirectional, or proposed nameplate capacities where there are more than one (for a storage facility provide maximum receipt and delivery quantities. For pipeline provide information on any backhaul capacity if relevant)</u>	<u>No</u>	<u>Varchar(400)</u>	<u>Backhaul capacity will be 24TJ/day</u>
<u>Related Facility ID</u>	<u>RelatedFacilityID</u>	<u>Any facilities which are related to the development facility</u>	<u>No</u>	<u>Int</u>	<u>123456</u>

4.20.2 Requirements

- When entering a new submission with an earlier effective date than a previous submission, participant must update all future records as these records will apply on their effective date

4.20.3 Validation Rules

- DevelopmentFacilityID must be a registered DevelopmentFacilityID
- Submissions must only contain Development Facility ID's for which the submitter is the Reporting Entity
- CapacityFrom and CapacityTo must be submitted in TJs accurate to three decimal places
- DevelopmentStage must be one of PROPOSED, COMMITTED, CANCELLED or ENDED
- DevelopmentStage input is case sensitive
- CapacityFrom must be greater than or equal to 0
- CapacityTo must be greater than or equal to 0

A1. Data Submission

This Appendix describes how to submit and validate transaction data using:

- ~~File transfer protocol (FTP)~~
 - MarketNet

A1.1 System requirements

~~Submitting data using the FTP interface requires:~~

- ~~Access credentials to the BB file server.~~
- ~~Public internet access (AEMO network access is not required).~~
- ~~FTP client software.~~

Submitting data over MarketNet requires:

- Access credentials to MarketNet. Access is provided during registration.
- Participant user access rights provided by your company's participant administrator.
- Internet access (MarketNet connection is required).

A1.2 CSV Format

~~CSV data format is used to submit data using FTP.~~ Details and examples of transaction data in CSV format are provided in transaction specifications. See A1.3.

A comma in a free text field (such as Capacity Description and Description) is treated as a value separator in the validation process and results in validation errors. To prevent this validation error, exclude commas in the description, or enclose the description with commas in double quotes "".

Filename convention

BB submitted CSV files must conform to the following naming convention:

```
[COMPID]_[TRANSACTIONNAME]_[CCYYMMDDHHMMSS].CSV
```

The format of each filename component is:

Name part	Description	Format
COMPID	The relevant gas company identifier of the <i>BB reporting entity</i> as allocated by AEMO during the registration process.	Text
TRANSACTIONNAME	The name of the transaction to which the CSV file is supplied, with no white spaces. The list of possible transaction names is: <ul style="list-style-type: none">• SHORT_TERM_CAPACITY_OUTLOOK• DAILY_PRODUCTION_AND_FLOW• DAILY_STORAGE• NOMINATIONS_AND_FORECASTS• GS_NAMEPLATE_RATING• CP_NAMEPLATE_RATING• LINEPACK_CAPACITY_ADEQUACY• MEDIUM_TERM_CAPACITY_OUTLOOK• SECONDARY_BID_OFFER_SUMMARY• SECONDARY_TRADE_SUMMARY	Text

Name part	Description	Format
	<ul style="list-style-type: none"> NAMEPLATE_RATING UNCONTRACTED_CAPACITY_OUTLOOK 	
CCYYMMDDHHMMSS	Date/time stamp in the format CCYYMMDDHHmmSS when the file has been generated, 24-hour format, local time.	Datetime (CCYYMMDDhhmmss)
CSV	The file extension of "CSV", separated from the file name with a period "."	

For example, a filename for a linepack capacity adequacy transaction generated on the 2018-09-01 at 13:15:00 by the *BB reporting entity* with a company identifier of 123 is:

123_LINEPACK_CAPACITY_ADEQUACY_20180901131500.CSV

A1.3 Uploading a CSV file using FTP

To upload a CSV file using FTP:

1. Prepare a data file in CSV format utilising a text editor, or third party tool.

If you open a text file with .CSV extension in Microsoft Excel, the date format changes to dd-MM-YY that is incompatible with the AEMO date format specification YYYY-MM-DD.

Each CSV file can contain multiple records but only data pertaining to the transaction type specified in the <TRANSACTIONNAME> component of the filename.

2. Connect to one of the following FTP servers manually or using automated system/s by specifying a username and password.

- Pre-production FTP server: <ftp.preprod.gbb.aemo.com.au>
- Production FTP server: <ftp.gbb.aemo.com.au>
- Once connected, you are directed to the default directory.

AEMO recommends the use of PASSIVE mode for FTP connections.

3. Transfer the files using FTP into the "Export" subdirectory within your organisation's FTP directory. The BB systems continually poll each 'Export' subdirectory for any new files and processes them accordingly. For example, /Export/COMPID_TRANSACTIONNAME_YYYYMMDDHHMMSS.csv

The files are validated and transaction success or failure is provided in the INT944 Transaction Log which is deposited in the "Import" subdirectory in your organisation's FTP directory. The Transaction Log includes details of any error found within the submitted file/s.

The CSV transaction file will only be accepted by the system if all its records have passed all validations.

A1.4A1.3 Uploading a file using MarketNet

To find out more about:

- How to submit data using CSV
- How to view Nominations and Forecasts data

Refer to the [AEMO Guide To Information Systems](#).

A1.5A1.4 Transaction acknowledgment

A1.5.1—FTP

A Transaction Log report is generated for each FTP file submission which is available in the *BB reporting entities* private FTP file directory. The Transaction Log files are retained in a *BB reporting entities* file directory for seven days. Files exceeding the retention period are automatically moved into the Archive folder.

- If the CSV transaction file passed all validations, then the file is accepted, and the Transaction Log file is generated with a success message and error code 0.
- If at least one record in the submitted CSV transaction file fails validation, then the file is rejected and the Transaction Log file is generated with a list of the error codes. For a list of error codes, see Appendix A5 (Validation error codes).

A1.5.2A1.4.1 MarketNet

- If the uploaded CSV transaction file passes all validations, the file is accepted and a success message is displayed.
- If at least one record in the submitted CSV transaction file fails validation, then the file is rejected and an error message is displayed.

A2. RESTful web services data submission

You can submit transaction data in a RESTful style by a HTTPS POST request to BB submission URLs. To use the RESTful interface through HTTPS, AEMO's web services are accessed through a MarketNet connection.

A2.1 API Web Portal

The AEMO API Web Portal provides information to implement your APIs and includes documentation, examples, code samples, and API policies:

- Pre-production environment:
`https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/{resourceName}`
- Production environment:
`https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/{resourceName}`

For detailed information on accessing the e-Hub (API Web Portal and API Gateway), and using the API Portal, see the [Guide to AEMO's e-Hub APIs](#).

A2.2 System Requirements

API Web Portal

- MarketNet or internet connection. For more information about MarketNet, see [Guide to Information Systems](#).
- User ID and password.

API Gateway

- Access to MarketNet.
- An application to Base64 encode your User Rights Management (URM) username and password for authorisation. Provided by your Participant Administrator.
- Authentication using an SSL digital certificate which contains a:
 - Digitally signed certificate: A digital certificate provided by the participant that is digitally signed by AEMO.
 - E-Hub public certificate: AEMO's public key certificate.
 - Root certificate: Public key certificate that identifies the root certificate authority (CA).
 - For more information on how to obtain these certificates, see "SSL certificates" in the Guide to AEMO's e-Hub APIs.

Access to production and pre-production APIs require different SSL certificates.

A2.3 HTTPS POST request format

A HTTPS POST request consists of:

- HTTPS request header attributes as shown in the following table.
- Request body which contains the submission data in JSON objects and properties. It must only contain the content of a single transaction type.

A2.3.1 HTTPS request header attributes

Header parameter	Description	Allowed values / Example
Content-Type	HTTPS request format.	Content-type: application/json
Accept	HTTPS response format.	Accept: application/json
Content-Length	Content length of file. The value is populated when the request is sent.	Content-length: nnn
X-initiatingParticipantID	The participant ID	X-initiatingParticipantID: 123456
X-market	The market type that the request applies.	X-market: GAS
Authorization	Specifies basic HTTP authentication containing the Base64[1] encoded username and password. The participant's URM username and password are concatenated with a colon separator and then Base64 encoded.	Authorization: Basic QFhQVC0wMDAwMzoyZWRmOGJhYS0wY2I0LTQwZjctOTIyMS0yODUxNmM4N2MxNjQ= (For URM username "@XPT-00003" and password "2edf8baa-0cb4-40f7-9221-28516c87c164")

An example of a Daily Storage HTTPS POST request is shown below.

- POST request URL: TBC
- Participant ID: 123456

OTHER HEADER INFORMATION TBC

```
Content-type: application/json
Accept: application/json
Content-length: nnn
Authorization: Basic QFhQVC0wMDAwMzoyZWRmOGJhYS0wY2I0LTQwZjctOTIyMS0yODUxNmM4N2MxNjQ=
X-initiatingParticipantID: 123456
X-market: GAS
```

```
{
  "ItemList": [
    {
      "GasDate": "2018-12-01T00:00:00",
      "FacilityId": 530038,
      "ActualQuantity": 200.861
    }
  ]
}
```

The JSON body properties for transaction POST requests is shown in the AEMO API portal > API Gallery > Gas Bulletin Board and the transaction specifications.

A swagger file can also be downloaded from AEMO API portal > API Gallery > Gas Bulletin Board > API documents which contains RESTful API specification for BB data submissions.

For NIL quality, you can use "null" for the property value, or alternatively excluding the data property in the submission automatically sets the property to null.

A2.4 Submission URLs

A data submission must be a HTTPS POST request to a valid BB submission URL. Each transaction type has a unique submission URL as shown in the following table.

The URLs for reports share a common base URL format. The format of the base URL is shown below.

Market Facing Internet web service host

<https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/{resourceName}>

<https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/{resourceName}>

Market Facing MarketNet web service host

<https://apis.preprod.marketnet.net.au:9319/ws/gbb/submission/v1/{resourceName}>

<https://apis.prod.marketnet.net.au:9319/ws/gbb/submission/v1/{resourceName}>

Notes:

- Participants can use either service (Internet or MarketNet) to submit data. For example, if you use MarketNet instead of the Internet service, substitute <https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/reportName> with <https://apis.preprod.marketnet.net.au:9319/ws/gbb/submission/v1/reportName>
- Submission URLs are case-sensitive. Resource Name is always camelCase.

A2.4.1 URLs for submitting transaction data

Transaction Type	URL
Daily Production and Flow	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/dailyProductionAndFlow) BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/dailyProductionAndFlow)
Gate Station Nameplate Rating	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/gateStationNameplateRating) BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/gateStationNameplateRating)
Connection Point Nameplate Rating	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/connectionPointNameplateRating) BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/connectionPointNameplateRating)
Linepack Capacity Adequacy	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/linepackCapacityAdequacy) BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/linepackCapacityAdequacy)
Medium Term Capacity Outlook	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/mediumTermCapacityOutlook) BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/mediumTermCapacityOutlook)
Nameplate Rating	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/nameplateRating) BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/nameplateRating)
Nomination and Forecasts	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/nominationsAndForecasts) BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/nominationsAndForecasts)
Secondary Pipeline	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/secondaryPipelineCapacityBidsOffers)

Transaction Type	URL
Capacity Bid and Offer Summary	BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/secondaryPipelineCapacityBidsOffers)
Secondary Pipeline Capacity Trade Summary	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/secondaryPipelineCapacityTrades) BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/secondaryPipelineCapacityTrades)
Uncontracted Capacity Outlook	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/uncontractedCapacityOutlook) BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/uncontractedCapacityOutlook)

Transaction data is only accepted by the system if **all** data passes validations.

A2.5 HTTPS response format

The submission response from the server consists of two parts: the response status code and the response body. The response status codes returned by the GBB are shown in the following table.

A2.5.1 Response Codes

Code	Response body	Data condition	Description
200	OK	Successful request.	Successful request.
400	{ "Fault": "<SystemMessageExceptionDump>" }	The service cannot be found for the endpoint reference (EPR) <URI>	The service cannot be found for the endpoint reference (EPR) <URI>
401	{ "Exception": "Unauthorized:Invalid UserName or Password" }	Invalid credentials.	Invalid credentials, or no username or password in the HTTP request header.
404	{ "Exception": "Resources for the endpoint URI not found. Endpoint URI: <Resource>" }	Resource not found.	Not found

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Code	Response body	Data condition	Description
405	{ "Exception": "Input request HTTP method is <Invalid Method passed> but operation <Resource Name> accepts only: [<Valid Method>]" }	Invalid Method used (e.g. GET used instead of POST)	Method Not Allowed
422	TBC	Business validation failure	Unprocessable entity.
500	{ "Exception": "Application Unavailable" }	e-Hub is operational but downstream systems are not available.	Application Unavailable
503	{ "Exception": "Service invocation for API was rejected based on policy violation" }	Exceeds throttling limits	Service invocation for API was rejected based on policy violation
	Error message: javax.net.ssl.SSLHandshake Exception: Received fatal alert: bad_certificate	SSL Certificate authentication validation failed	

The server returns a Content-Type of application/json, and a JSON formatted string consisting of two fields: status and error.

A2.5.2 Response fields

Field	Data Type	Description
Data	Object	This data object contains all the results of the submission. The properties of the data object are dependent on the service call.

An example of a successful submission response is shown below:

```
{
  "data": {},
  "errors": null
}
```

An example of an unsuccessful submission with HTTP response code 422 is shown below. A transaction error code is shown with details of the error.

```
{
  {
    "data": {},
    "errors": [
      {
        "code": 73,
        "title": "InvalidBuySell",
        "detail": "BuySell value 24.1 is not valid",
        "source": null
      }
    ]
  }
}
```

For a complete list of transaction code errors, see Appendix A5.

A3. Data Submission Examples

A3.1 Short Term Capacity Outlook

A3.1.1 Example 1

The following example shows a Short Term Capacity Outlook intra-day data submission for a *BB pipeline* NSW-Victoria Interconnect. This is an amendment to D+5 of submission period 2018-09-02 to 2018-09-08 due to unplanned maintenance on the Eurora Compressor Station.

A CSV file format example is shown for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data and does not include header file information.

- Submission for 2018-09-06 (D+5).
- A nominated and forecast flow submission for a *BB pipeline* (520047).
- A *BB pipeline* has a Capacity Type value "MDQ", and Capacity Description, Receipt Location, and Delivery Location must be provided.

CSV file format

```
GasDate, FacilityId, CapacityType, OutlookQuantity, FlowDirection, Capacity
Description, ReceiptLocation, DeliveryLocation, Description
2018-09-06, 520047, MDQ, 170.1, , This transmission capacity is the amount of gas that the
Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility, 1200001, 1200004, Capacity reduced due to unplanned
maintenance of Euroa Compressor Station
```

JSON file format

```
{
  "ItemList": [
    {
      "GasDate": "2018-09-06T00:00:00+10:00",
      "FacilityId": 520047,
      "CapacityType": "MDQ",
      "OutlookQuantity": 170.1,
      "FlowDirection": null
      "CapacityDescription": "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility",
      "ReceiptLocation": 1200001,
      "DeliveryLocation": 1300004,
      "Description": "Capacity reduced due to unplanned maintenance of Euroa
Compressor Station"
    }
  ]
}
```

```
]
}
```

A3.1.2 Example 2

The following example shows a Short Term Capacity Outlook data submission for a *BB pipeline* Longford to Melbourne. A *BB pipeline* has a Capacity Type value "MDQ", and Capacity Description, Receipt Location, and Delivery Location must be provided.

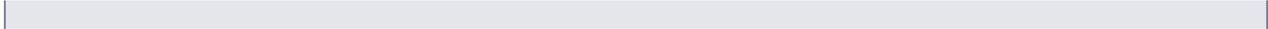
A CSV file format example is shown for ~~FTP transfer~~ or BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date 2017-12-01 for 2017-12-02 (D+1) to 2017-12-08 (D+7).
- A nominated and forecast flow submission for a *BB pipeline* (530067).

CSV file format

```
GasDate, FacilityId, CapacityType, OutlookQuantity, FlowDirection, Capacity
Description, ReceiptLocation, DeliveryLocation, Description
2017-12-02, 530067, MDQ, 1030.525, , "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant", 1700001, 1300004, "Longford to
Melbourne pipeline capacity constrained, expected to remain for 3 days"
2017-12-03, 530067, MDQ, 1020.938, , "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant", 1700001, 1300004, "Longford to
Melbourne pipeline capacity constrained, expected to remain for 3 days"
2017-12-04, 530067, MDQ, 1025.941, , "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant", 1700001, 1300004, "Longford to
Melbourne pipeline capacity constrained, expected to remain for 3 days"
2017-12-05, 530067, MDQ, 1023.856, , "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant", 1700001, 1300004, "Longford to
Melbourne pipeline capacity constrained, expected to remain for 3 days"
2017-12-06, 530067, MDQ, 1020.1, , "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant", 7200001, 1300004, "Longford to
Melbourne pipeline capacity constrained, expected to remain for 3 days"
2017-12-07, 530067, MDQ, 1023.350, , "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility", 1700001, 1300004, "Longford to Melbourne pipeline capacity
constrained, expected to remain for 3 days"
2017-12-08, 530067, MDQ, 1021.556, , "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility", 1700001, 1300004, "Longford to Melbourne pipeline capacity
constrained, expected to remain for 3 days"
```

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JSON file format

```
{
  "ItemList": [
    {
      "GasDate": "2017-12-02T00:00:00+10:00",
      "FacilityId": 530067,
      "CapacityType": "MDQ",
      "OutlookQuantity": 1030.525,
      "FlowDirection": null
      "CapacityDescription": "This transmission capacity is the amount of gas that the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang Lang receipt point are able to inject into this pipeline facility. This capacity is limited by the maximum operating pressure of this pipeline facility and the maximum injection pressure of the Longford Gas Plant",
      "ReceiptLocation": 1700001,
      "DeliveryLocation": 1300004,
      "Description": "Longford to Melbourne pipeline capacity constrained, expected to remain for 3 days",
    }
  ],
  {
    "GasDate": "2017-12-03T00:00:00+10:00",
    "FacilityId": 530067,
    "CapacityType": "MDQ",
    "OutlookQuantity": 1020.938,
    "FlowDirection": null
    "CapacityDescription": "This transmission capacity is the amount of gas that the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang Lang receipt point are able to inject into this pipeline facility. This capacity is limited by the maximum operating pressure of this pipeline facility and the maximum injection pressure of the Longford Gas Plant",
    "ReceiptLocation": 1700001,
    "DeliveryLocation": 1300004,
    "Description": "Longford to Melbourne pipeline capacity constrained, expected to remain for 3 days",
  }
  {
    "GasDate": "2017-12-04T00:00:00+10:00",
    "FacilityId": 530067,
    "CapacityType": "MDQ",
    "OutlookQuantity": 1025.941,
```

```

    "FlowDirection": null,

    "CapacityDescription": "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant",

    "ReceiptLocation": 1700001,

    "DeliveryLocation": 1300004,

    "Description": "Longford to Melbourne pipeline capacity constrained, expected
to remain for 3 days",

    },

    {

    "GasDate": "2018-12-05T00:00:00+10:00",

    "FacilityId": 530067,

    "CapacityType": "MDQ",

    "OutlookQuantity": 1023.856,

    "FlowDirection": null,

    "CapacityDescription": "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant",

    "ReceiptLocation": 1700001,

    "DeliveryLocation": 1300004,

    "Description": "Longford to Melbourne pipeline capacity constrained, expected
to remain for 3 days",

    },

    {

    "GasDate": "2017-12-06T00:00:00+10:00",

    "FacilityId": 530067,

    "CapacityType": "MDQ",

    "OutlookQuantity": 1020.1,

    "FlowDirection": null,

    "CapacityDescription": "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant",

    "ReceiptLocation":1700001,

    "DeliveryLocation": 1300004,

    "Description": "Longford to Melbourne pipeline capacity constrained, expected
to remain for 3 days",

    },

```

Forma
Pattern

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Pattern

```

{
  "GasDate": "2017-12-07T00:00:00+10:00",
  "FacilityId": 530067,
  "CapacityType": "MDQ",
  "OutlookQuantity": 1023.350,
  "FlowDirection": null,
  "CapacityDescription": "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant",
  "ReceiptLocation": 1700001,
  "DeliveryLocation": 1300004,
  "Description": "Longford to Melbourne pipeline capacity constrained, expected
to remain for 3 days",
},
{
  "GasDate": "2017-12-08T00:00:00+10:00",
  "FacilityId": 530067,
  "CapacityType": "MDQ",
  "OutlookQuantity": 1021.55,
  "FlowDirection": null,
  "CapacityDescription": "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant",
  "ReceiptLocation": 1700001,
  "DeliveryLocation": 1300004,
  "Description": "Longford to Melbourne pipeline capacity constrained, expected
to remain for 3 days"
}
]
}

```

A3.1.3 Example 3

The following scenario shows a Short Term Capacity Outlook data submission for a *BB storage facility* LNG Storage Dandenong for gas withdrawn from the Victorian Declared Transmission System to top-up this storage facility. *BB storage facilities* are required to report capacity for receipts into, and deliveries from the *BB storage facility* as well as natural gas quantities that can be held in storage.

Forma
Pattern

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Pattern

A CSV file format example is provided for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date 2018-10-14 for 2018-10-15 (D+1) to 2018-10-21 (D+7).
- A short term capacity submission for LNG Storage Dandenong (530020).
- A BB storage facility has a Capacity Type value "STORAGE". Flow direction, Capacity Description, Receipt Location, ~~Delivery and~~ Delivery Location, ~~and Description~~ information are not required.
- A BB storage facility has a Capacity Type value "MDQ".

CSV file format

```
GasDate, FacilityId, CapacityType, OutlookQuantity, FlowDirection, Capacity
Description, ReceiptLocation, DeliveryLocation, Description
2018-10-15, 530020, STORAGE, , 237.525, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-15, 530020, MDQ, RECEIPT, , 150.321, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-15, 530020, MDQ, DELIVERY, , 37.601, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-16, 530020, STORAGE, , 300.961, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-16, 530020, MDQ, RECEIPT, , 135.901, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-16, 530020, MDQ, DELIVERY, , 126.781, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-17, 530020, STORAGE, , 240.961, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-17, 530020, MDQ, RECEIPT, , 130.805, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-17, 530020, MDQ, DELIVERY, , 160.729, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-18, 530020, STORAGE, , 238, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-18, 530020, MDQ, RECEIPT, , 237.525, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-18, 530020, MDQ, DELIVERY, , 240.647, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-19, 530020, STORAGE, , 236.1, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-19, 530020, MDQ, RECEIPT, , 236.189, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-19, 530020, MDQ, DELIVERY, , 240.665, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-20, 530020, STORAGE, , 235.35, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-20, 530020, MDQ, RECEIPT, , 235.792, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-20, 530020, MDQ, DELIVERY, , 234.15, , , , "one compressor unit under
maintenance, expected to return to service in 5 days"
2018-10-21, 530020, STORAGE, , 236.556, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-21, 530020, MDQ, RECEIPT, , 242, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
```

2018-10-21,530020,MDQ,DELIVERY,,239.185,,,,,"one compressor unit under maintenance, expected to return to service in 5 days"

JSON file format

```
{
  "ItemList": [
    {
      "GasDate": "2018-10-15T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "STORAGE",
      "OutlookQuantity": 237.525,
      "FlowDirection": null,
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "Description": "one compressor unit under maintenance, expected to return to service in 5 days"
    },
    {
      "GasDate": "2018-10-15T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "MDQ",
      "OutlookQuantity": 150.321,
      "FlowDirection": "RECEIPT",
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "Description": "one compressor unit under maintenance, expected to return to service in 5 days"
    },
    {
      "GasDate": "2018-10-15T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "MDQ",
      "OutlookQuantity": 37.601,
      "FlowDirection": "DELIVERY",
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
    }
  ]
}
```

```

    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-16T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "STORAGE",
    "OutlookQuantity": 300.961,
    "FlowDirection": null,
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-16T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 135.961,
    "FlowDirection": "RECEIPT",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-12-16T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 126.781,
    "FlowDirection": "DELIVERY",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  }

```

Forma
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```

    },
    {
      "GasDate": "2018-10-17T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "STORAGE",
      "OutlookQuantity": 240.961,
      "FlowDirection": null,
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
    },
    {
      "GasDate": "2018-10-17T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "MDQ",
      "OutlookQuantity": 130.805,
      "FlowDirection": "RECEIPT",
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
    },
    {
      "GasDate": "2018-12-17T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "MDQ",
      "OutlookQuantity": 160.729,
      "FlowDirection": "DELIVERY",
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
    },
    {

```

Forma
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Pattern

```

    "GasDate": "2018-10-18T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "STORAGE",
    "OutlookQuantity": 238,
    "FlowDirection": null,
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-18T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 237.525,
    "FlowDirection": "RECEIPT",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-12-18T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 240.647,
    "FlowDirection": "DELIVERY",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-19T00:00:00+10:00",
    "FacilityId": 530020,

```

Forma
Pattern

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Pattern

```

    "CapacityType": "STORAGE",
    "OutlookQuantity": 236.1,
    "FlowDirection": null,
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-19T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 236.189,
    "FlowDirection": "RECEIPT",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-12-19T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 240.665,
    "FlowDirection": "DELIVERY",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": null
  },
  {
    "GasDate": "2018-10-20T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "STORAGE",
    "OutlookQuantity": 235.35,

```

Forma
Pattern

Forma
Pattern

```

    "FlowDirection": null,
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-20T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 235.792,
    "FlowDirection": "RECEIPT",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-12-20T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 234.15,
    "FlowDirection": "DELIVERY",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-21T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "STORAGE",
    "OutlookQuantity": 236.556,
    "FlowDirection": null,
    "CapacityDescription": null,

```

Forma
Pattern

Forma
Pattern

```

    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-21T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 242,
    "FlowDirection": "RECEIPT",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-12-21T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 239.185,
    "FlowDirection": "DELIVERY",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  }
]
}

```

A3.2 Daily Production Flow

The following scenarios show the Daily Production and Flow data submissions in a CSV file format for [FTP transfer or BB website upload](#), and JSON file format for HTTP web services.

A3.2.1 Example 1

Example 1 is a Daily Production and Flow data submission for three connection points.

A CSV file format example is shown for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-09-01 for 2018-08-31 (D-1).
- Daily actual flow for a *BB pipeline* 520047.
- Connection Points:
 - Connection Point 1201001 with Storage Facility 520068.
 - Connection Point 1201002 with Production Facility 520070.
 - Connection Point 1201003 with Pipeline 530015.

CSV file example

```
GasDate, FacilityId, ConnectionPointId, FlowDirection, ActualQuantity, Quality
2018-08-31, 520047, 1201001, DELIVERY, 25.525, OK
2018-08-31, 520047, 1201001, RECEIPT, 0.345, OK
2018-08-31, 520047, 1201002, RECEIPT, 15.513, OK
2018-08-31, 520047, 1201003, RECEIPT, 12.221, OK
```

JSON format example

```
{
  "ItemList": [
    {
      "GasDate": "2017-08-31T00:00:00",
      "FacilityId": 520047,
      "ConnectionPointId": 1201001,
      "ActualQuantity": 25.525,
      "Quality": "OK",
      "FlowDirection": "DELIVERY"
    },
    {
      "GasDate": "2017-12-01T00:00:00",
      "FacilityId": 520047,
      "ConnectionPointId": 1201001,
      "ActualQuantity": 0.345,
      "Quality": "OK",
      "FlowDirection": "RECEIPT"
    },
    {
      "GasDate": "2017-12-01T00:00:00",
      "FacilityId": 520047,
      "ConnectionPointId": 1201002,
```

```
    "ActualQuantity": 15.513,
    "Quality": "OK",
    "FlowDirection": "RECEIPT"
  },
  {
    "GasDate": "2017-12-01T00:00:00",
    "FacilityId": 530038,
    "ConnectionPointId": 1201003,
    "ActualQuantity": 12.221,
    "Quality": "OK",
    "FlowDirection": "RECEIPT"
  }
]
}
```

A3.2.2 Example 2

Example 2 is a data submission that includes a connection point in the delivery flow direction that was not operational. Hence, gas flow could not be measured resulting in a "NIL" Quality value and null Actual Quantity value.

A CSV file format example is shown for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-09-01 for 2018-08-31 (D-1).
- Daily actual flow for a BB Storage Facility 520068.
- Connection Point 1201001 with Pipeline 520047.

CSV file example

```
GasDate, FacilityId, ConnectionPointId, FlowDirection, ActualQuantity, Quality
2018-08-31, 520068, , RECEIPT, 25.525, OK
2018-08-31, 520068, , N/ADELIVERY, , NIL
```

JSON format example

```
{
  "ItemList": [
    {
      "GasDate": "2018-08-31T00:00:00",
      "FacilityId": 520068,
      "ConnectionPointId": null,
      "ActualQuantity": 25.525,
      "Quality": "OK",
      "FlowDirection": "RECEIPT"
    },
    {
      "GasDate": "2018-08-31T00:00:00",
      "FacilityId": 520068,
      "ConnectionPointId": null,
      "ActualQuantity": null,
      "Quality": "NIL",
      "FlowDirection": "N/ADELIVERY"
    }
  ]
}
```

A3.3 Daily Storage

A3.3.1 Example 1

The following example shows the Daily Storage data submission in a CSV file format for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-09-01 for 2018-08-31 (D-1).
- BB storage facility 520047.

CSV file example

```
FacilityId, GasDate, ActualQuantity, CushionGasQuantity
520047, 2018-08-31, 158.335, 200.232
520047, 2018-08-31, 160.753, 222.2
520047, 2018-08-31, 199.324, 225.252
```

JSON file example

```
{
  "ItemList": [
    {
      "GasDate": "2018-08-31T00:00:00",
      "FacilityId": 520047,
      "ActualQuantity": 158.335,
      "CushionGasQuantity": 200.232
    },
    {
      "GasDate": "2017-08-31T00:00:00",
      "FacilityId": 520047,
      "ActualQuantity": 160.753,
      "CushionGasQuantity": 222.2
    },
    {
      "GasDate": "2017-08-31T00:00:00",
      "FacilityId": 520047,
      "ActualQuantity": 199.324,
      "CushionGasQuantity": 225.252
    }
  ]
}
```

A3.4 Connection Point Nameplate Rating

A3.4.1 Example 1

The following example shows a Connection Point Nameplate Rating data submission. A CSV file format example is provided for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-08-06.
- Connection Point 1301002.

CSV file format

```
ConnectionPointId,CapacityQuantity,EffectiveDate,Description
1301002,201.65,2018-08-06,
1301003,200.783,2018-08-06,
```

JSON format example

```
{
  "ItemList": [
    {
      "ConnectionPointId": "1301002",
      "CapacityQuantity": 201.65,
      "EffectiveDate": 2018-08-06,
      "Description": null
    },
    {
      "ConnectionPointId": "1301003",
      "CapacityQuantity": 200.783,
      "EffectiveDate": 2018-08-06,
      "Description": null
    }
  ]
}
```

A3.5 Linepack Capacity Adequacy

A3.5.1 Example 1

The following scenarios is a LCA data submission for the Eastern pipeline.

A CSV file format example is shown for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-09-01 for 2018-09-03.
- *BB pipeline* 520061.

CSV file example

```
GasDate, FacilityId, Flag, Description
2018-09-01, 520061, GREEN, All ok
2018-09-02, 520061, GREEN, All ok
2018-09-03, 520061, GREEN, All ok
```

JSON file example

```
{
  "ItemList": [
    {
```

```

    "GasDate": "2018-09-01T00:00:00",
    "FacilityId": 520061,
    "Flag": GREEN
    "Description": "All ok"
  },
  {
    "GasDate": "2018-09-02T00:00:00",
    "FacilityId": 520061,
    "Flag": GREEN
    "Description": "All ok"
  },
  {
    "GasDate": "2018-09-03T00:00:00",
    "FacilityId": 520061,
    "Flag": GREEN
    "Description": "All ok"
  }
]
}

```

A3.5.2 Example 2

The following scenarios is an intra-day LCA data submission for a BB pipeline that has an unplanned outage. A CSV file format example is shown for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Company Id is 100
- Submission date is 2018-09-01 for 2018-09-01 (D-1).
- *BB pipeline 520052.*

CSV file example

```

GasDate, FacilityId, Flag, Description
2018-09-01, 550052, AMBER, Unplanned outage on the Berwyndale to Wallumbilla Pipeline

```

JSON file example

```

{
  "CompanyId": 100,
  "ItemList": [
    {
      "GasDate": "2018-09-01T00:00:00",
      "FacilityId": 550052,

```

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Pattern

```

    "Flag": "AMBER",
    "Description": "Unplanned outage on the Berwyndale to Wallumbilla Pipeline"
  }
]
}

```

A3.6 Medium Term Capacity Outlook

A3.6.1 Example 1

A Medium Term Capacity Outlook data submission replaces all existing Medium Term Capacity Outlook data records for a facility where the start date is on or after the current gas day.

Active Medium Term Capacity Outlook data (where the start date is before the current gas day and the end date is on or after the current gas day) is end dated to the current gas date D-1.

You can delete all existing Medium Term Capacity Outlook data records for a facility by making a submission with the Facility Id and blank values for the remaining fields. All Medium Term Capacity Outlook data records are deleted for the specified facility where the start date is on or after the current gas day, and also end date any active Medium Term Capacity Outlook data.

Historical records where the Medium Term Capacity Outlook end date is before the current gas day cannot be modified or deleted.

The following example illustrates the system behaviour for a Medium Term Capacity Outlook data submission.

Initial state

Medium Term Capacity Outlook submission 1: 14-17 April

Medium Term Capacity Outlook submission 2: 18-23 April

Medium Term Capacity Outlook submission 3: 24-28 April

14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	
MTCO 1															
				MTCO 2											
								MTCO 3							

14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	
MTCO 1															
				MTCO 2											
								MTCO 3							

File submissions with updated data

Medium Term Capacity Outlook submission 4: 21-24 April

Medium Term Capacity Outlook submission 5: 27-28 April

14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	
								MTCO 4							
								MTCO 4							MTCO 5

14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	
								MTCO 4							
								MTCO 4							MTCO 5

End state after the file submission

Medium Term Capacity Outlook submission 1: 14-17 April

Forma
Pattern

Forma
Pattern

Medium Term Capacity Outlook submission 2: 18-20 April

Medium Term Capacity Outlook submission 4: 21-24 April

Medium Term Capacity Outlook submission 5: 27-28 April

25-26 April does not have Medium Term Capacity Outlook data, so the facility's capacity is defined by its Nameplate Rating.

14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
MTCO 1														
				MTCO 2										
							MTCO 4							
													MTCO 5	

14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
MTCO 1														
				MTCO 2										
							MTCO 4							
													MTCO 5	

Where multiple capacity types apply to an individual facility, then all details must be provided. This data is used in the Medium Term Capacity Outlook report.

A3.6.2 Example 2 (submission format)

A CSV file format example is shown for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission for a BB pipeline (520066).
- A BB pipeline has a Capacity Type value "MDQ", and Capacity Description, Receipt Location, and Delivery Location must be provided.

CSV file format

```

FacilityId,FromGasDate,ToGasDate,CapacityType,OutlookQuantity,FlowDirection,CapacityDescription,ReceiptLocation,DeliveryLocation,Description
540066,2018-06-22,2018-06-30,MDQ,100.522,,This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is dependent on the forecast DTS demand and the availability of key assets on this pipeline facility,1200001,1300004,Corrective maintenance requiring reduction of operating pressure
540066,2018-06-22,2018-06-30,MDQ,67.801,,This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is dependent on the forecast DTS demand and the availability of key assets on this pipeline facility,1200001,1300004,Reversal of previous entry
540066,2018-08-01,2018-08-10,MDQ,56.764,, This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is dependent on the forecast DTS demand and the availability of key assets on this pipeline facility,1200001,1300004,Gas Conditioning Vessel Filter Install
    
```

JSON format

```

{
  "ItemList": [
    {
      "FromGasDate": "2018-06-22T00:00:00+10:00",
      "ToGasDate": "2018-06-30T00:00:00+10:00",
    }
  ]
}
    
```

```

    "FacilityId": 540066,
    "CapacityType": "MDQ",
    "OutlookQuantity": 100.522,
    "FlowDirection": null
    "CapacityDescription": "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility",
    "ReceiptLocation": 1200001,
    "DeliveryLocation": 1300004,
    "Description": "Corrective maintenance requiring reduction of operating
pressure"
  },
  {
    "FromGasDate": "2018-06-22T00:00:00+10:00",
    "ToGasDate": "2018-06-30T00:00:00+10:00",
    "FacilityId": 540066,
    "CapacityType": "MDQ",
    "OutlookQuantity": 67.801,
    "FlowDirection": null
    "CapacityDescription": "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility",
    "ReceiptLocation": 1200001,
    "DeliveryLocation": 1300004,
    "Description": "Reversal of previous entry"
  },
  {
    "FromGasDate": "2018-08-02T00:00:00+10:00",
    "ToGasDate": "2018-08-10T00:00:00+10:00",
    "FacilityId": 540066,
    "CapacityType": "MDQ",
    "OutlookQuantity": 67.801,
    "FlowDirection": null
    "CapacityDescription": "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility",
    "ReceiptLocation": 1200001,
    "DeliveryLocation": 1300004,

```

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```

    "Description": "Reversal of previous entry"
  },
  {
    "FromGasDate": "2018-06-22T00:00:00+10:00",
    "ToGasDate": "2018-06-22T00:00:00+10:00",
    "FacilityId": 540066,
    "CapacityType": "MDQ",
    "OutlookQuantity": 56.764,
    "FlowDirection": null
    "CapacityDescription": "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility",
    "ReceiptLocation": 1200001,
    "DeliveryLocation": 1300004,
    "Description": "Gas Conditioning Vessel Filter Install"
  }
]
}

```

A3.7 Nameplate Rating

A3.7.1 Example 1

The following scenario shows a nameplate data submission for *BB pipelines* due to changes in standing capacities. A CSV file format example is provided for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-06-23.
- A nameplate submission for a BB pipelines (540043 and 540073)

CSV file format

```

FacilityId,CapacityType,CapacityQuantity,FlowDirection,CapacityDescription,ReceiptLoc
ation,DeliveryLocation,EffectiveDate,Description
540043,MDQ,223.01,,This transmission capacity is the amount of gas that the Culcairn
Delivery Location is able to withdraw from this pipeline
facility.,1300502,1300405,2018-06-23,increase in nameplate pipeline capacity due to
completion of VNIE Phase B

```

540073,MDQ,220.96,,This transmission capacity is the amount of gas that the Longford Receipt Location and VicHub Receipt Location and TasHub Receipt Location and the Lang Lang Receipt Location are able to inject into this pipeline facility. This capacity is limited by the maximum operating pressure of this pipeline facility and the maximum injection pressure of the Longford Gas Plant,1500061,1500110,2018-06-23,increased pipeline capacity due to new the commissioning of a new compressor facility

JSON format example

```
{
  "ItemList": [
    {
      "FacilityId": 5400067,
      "CapacityType": "MDQ",
      "CapacityQuantity": 223.01,
      "FlowDirection": null,
      "Capacity Description": "This transmission capacity is the amount of gas that the Culcairn Delivery Location is able to withdraw from this pipeline facility",
      "ReceiptLocation": "1300502",
      "DeliveryLocation": "1300405",
      "EffectiveDate": "2018-06-23T00:00:00+10:00",
      "Description": "increase in nameplate pipeline capacity due to completion of VNIE Phase B"
    },
    {
      "FacilityId": 5200073,
      "CapacityType": "MDQ",
      "CapacityQuantity": 220.96,
      "FlowDirection": null,
      "Capacity Description": "This transmission capacity is the amount of gas that the Longford Receipt Location and VicHub Receipt Location and TasHub Receipt Location and the Lang Lang Receipt Location are able to inject into this pipeline facility. This capacity is limited by the maximum operating pressure of this pipeline facility and the maximum injection pressure of the Longford Gas Plant",
      "ReceiptLocation": 1500061,
      "DeliveryLocation": 1500110,
      "EffectiveDate": "2018-06-23T00:00:00+10:00",
      "Description": "Increased pipeline capacity due to new the commissioning of a new compressor facility"
    }
  ]
}
```

```
}
```

A3.7.2 Example 2

The following scenario shows a nameplate data submission for Silver Springs, a storage facility.

The facility has STORAGE Capacity Type value, therefore Flow Direction, Capacity Description, Receipt Location, and Delivery Location information are not required.

A CSV file format example is provided for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON file example only illustrates information relating to the transaction data, and does not include header file information.

CSV file format

```
FacilityId,CapacityType,CapacityQuantity,FlowDirection,CapacityDescription,ReceiptLocation,DeliveryLocation,EffectiveDate,Description
540062,STORAGE,330.60,,,,,2018-06-23,New storage tank added to facility
```

JSON file example

```
{
  "CompanyId": 100,
  "ItemList": [
    {
      "FacilityId": 540062,
      "CapacityType": "STORAGE",
      "CapacityQuantity": 330.60,
      "FlowDirection": null,
      "Capacity Description": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "EffectiveDate": "2018-06-23T00:00:00+10:00",
      "Description": "New storage tank added to facility"
    }
  ]
}
```

A3.8 Nominations and Forecasts

A3.8.1 Example 1

The following scenario shows a Nominations and Forecasts data submission for a *BB pipeline and gate station*.

A CSV file format example is provided for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date 2018-09-01 for 2018-09-02 (D+1) to 2018-09-07 (D+6).

- A nominated and forecast flow submission for a *BB pipeline* (520047).
- Connection Points:
 - Connection Point 1201001 with Pipeline 530015.
 - Connection Point 1201002 with a Gate Station.

CSV file format

```
GasDate, FacilityId, ConnectionPointId, FlowDirection, NominationQuantity
2018-09-02, 520047, 1201001, DELIVERY, 25.525
2018-09-02, 520047, 1201001, RECEIPT, 20.21
2018-09-02, 520047, 1201002, DELIVERY, 15.513
2018-09-02, 520047, 1201002, RECEIPT, 25.23
2018-09-03, 520047, 1201001, DELIVERY, 23.938
2018-09-03, 520047, 1201001, RECEIPT, 11.27
2018-09-03, 520047, 1201002, DELIVERY, 16.941
2018-09-03, 520047, 1201002, RECEIPT, 21.32
2018-09-04, 520047, 1201001, DELIVERY, 18.941
2018-09-04, 520047, 1201001, RECEIPT, 30.32
2018-09-04, 520047, 1201002, DELIVERY, 21.93
2018-09-04, 520047, 1201002, RECEIPT, 22.32
2018-09-05, 520047, 1201001, DELIVERY, 26
2018-09-05, 520047, 1201001, RECEIPT, 25.3
2018-09-05, 520047, 1201002, DELIVERY, 18.94
2018-09-05, 520047, 1201002, RECEIPT, 20.32
2018-09-06, 520047, 1201001, DELIVERY, 20.1
2018-09-06, 520047, 1201001, RECEIPT, 24.4
2018-09-06, 520047, 1201002, DELIVERY, 17
2018-09-06, 520047, 1201002, RECEIPT, 31.3
2018-09-07, 520047, 1201001, DELIVERY, 32.35
2018-09-07, 520047, 1201001, RECEIPT, 28.1
2018-09-07, 520047, 1201002, RECEIPT, 26.5
2018-09-07, 520047, 1201002, RECEIPT, 25.2
```

JSON format example

```
{
  "ItemList": [
    {
      "GasDate": "2018-09-02T00:00:00+10:00",
      "FacilityId": 520047,
      "ConnectionPointId": 120001,
      "FlowDirection": "DELIVERY",
      "NominationQuantity": "25.525"
    },
    {
```

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Pattern

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Pattern

```
"GasDate": "2018-09-02T00:00:00+10:00",
"FacilityId": 520047,
"ConnectionPointId":120001,
"FlowDirection": "RECEIPT",
"NominationQuantity": "20.21"
},
{
"GasDate": "2018-09-02T00:00:00+10:00",
"FacilityId": 520047,
"ConnectionPointId":120002,
"FlowDirection": "DELIVERY",
"NominationQuantity": "15.513"
},
{
"GasDate": "2018-09-02T00:00:00+10:00",
"FacilityId": 520047,
"ConnectionPointId":120002,
"FlowDirection": "RECEIPT",
"NominationQuantity": "25.23",
},
{
"GasDate": "2018-09-03T00:00:00+10:00",
"FacilityId": 520047,
"ConnectionPointId":120001,
"FlowDirection": "DELIVERY",
"NominationQuantity": "23.938"
},
{
"GasDate": "2018-09-03T00:00:00+10:00",
"FacilityId": 520047,
"ConnectionPointId":120001,
"FlowDirection": "RECEIPT",
```

```

    "NominationQuantity": "11.27"

  },
  {
    "GasDate": "2018-09-03T00:00:00+10:00",
    "FacilityId": 520047,
    "ConnectionPointId":120002,
    "FlowDirection": "DELIVERY",
    "NominationQuantity": "25.525"

  },
  {
    "GasDate": "2018-09-03T00:00:00+10:00",
    "FacilityId": 520047,
    "ConnectionPointId":120002,
    "FlowDirection": "RECEIPT",
    "NominationQuantity": "21.32"

  }
  ...
}
]
}

```

A3.9 Uncontracted Capacity Outlook

A3.9.1 Example 1

The following example is an Uncontracted Capacity Outlook submission for a *BB pipeline*.

A CSV file format example is shown for ~~FTP transfer or~~ BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission for a BB pipeline (540066).
- A BB pipeline has a Capacity Type value "MDQ", and Capacity Description, Receipt Location, and Delivery Location must be provided.

CSV file format

```

FacilityId,OutlookMonth,OutlookYear,CapacityType,OutlookQuantity,FlowDirection,CapacityDescription,ReceiptLocation,DeliveryLocation,Description
540066,2018,02,MDQ,100.522,,Capacity From BWP to SWQP facility,1200001,1300004,Capacity Outlook for 2018-02-19
540066,2018,03,MDQ,67.801,,Capacity From BWP to SWQP facility,1200001,1300004,Capacity Outlook for 2018-03-21

```

Format Pattern
Format Pattern

JSON format

```
{
  "ItemList": [
    {
      "FacilityId": 540066,
      "OutlookMonth": 02,
      "OutlookYear": 2018,
      "CapacityType": "MDQ",
      "OutlookQuantity": 100.522,
      "FlowDirection": null,
      "CapacityDescription": "Capacity From BWP to SWQP facility",
      "ReceiptLocation": 1200001,
      "DeliveryLocation": 1300004,
      "Description": "Capacity Outlook for 2018-02-19"
    },
    {
      "FacilityId": 540066,
      "OutlookMonth": 02,
      "OutlookYear": 2018,
      "CapacityType": "MDQ",
      "OutlookQuantity": 67.801,
      "FlowDirection": null,
      "CapacityDescription": "Capacity From BWP to SWQP facility",
      "ReceiptLocation": 1200001,
      "DeliveryLocation": 1300004,
      "Description": "Capacity Outlook for 2018-03-21"
    }
  ]
}
```

A3.10 BB Capacity Transaction

A3.10.1 Example 1

A CSV file format example is shown for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data and does not include header file information.

- Submission for 2019-03-01

CSV file format

```
TradeId,TradeDate,FromGasDate,ToGasDate,BuyerName,SellerName,FacilityId,FacilityName,
Flowdirection,StandardOTSA,BBTransportationServiceType,Priority,ReceiptPointId,Delive
ryPointId,ParkLoanPointId,Quantity,MHQ,Price,PriceStrusture,PriceEscalationMechanism
123456,2019-03-01,2019-03-10,2019-03-20,Star Energy,Purple
Energy,52001,,,YES,FORWARD_HAUL,Secondary Firm,
3001,4001,rr,5001,240,10,4.20,Variable,10% per annum
,2019-03-01,2019-03-10,2019-03-20,Star Energy,Purple Energy,,Tamworth
pipeline,NORTH_EAST,NO,BACKHAUL,Primary Firm,,,,,240,10,4.20,Variable,
```

JSON format

```
{
  "ItemList": [
    {
      "TradeId": 123456,
      "TradeDate": "2019-03-01",
      "FromGasDate": "2019-03-10",
      "ToGasDate": "2019-03-20",
      "BuyerName": "Star Energy",
      "SellerName": "Purple Energy",
      "FacilityId": 52001,
      "FacilityName": null,
      "FlowDirection": null,
      "StandardOTSA": "YES",
      "BBTransportationServiceType": "FORWARD_HAUL",
      "Priority": "Secondary Firm",
      "ReceiptPointId": 3001,
      "DeliveryPointId": 4001,
      "ParkLoanPointId": null5001,
      "Quantity": 240,
      "MHQ": 10,
      "Price": 4.20,
      "PriceStructure": "Variable",
      "PriceEscalationMechanism": "10% per annum"
    },
    {
      "TradeId": null,
      "TradeDate": "2019-03-01",
```

```
"FromGasDate": "2019-03-10",
"ToGasDate": "2019-03-20",
"BuyerName": "Star Energy",
"SellerName": "Purple Energy",
"FacilityId": null,
"FacilityName": "Tamworth pipeline",
"FlowDirection": "NORTH_EAST",
"StandardOTSA": "NO",
"BBTransportationServiceType": "FORWARD_HAUL",
"Priority": "Primary Firm",
"ReceiptPointId": null,
"DeliveryPointId": null,
"ParkLoanPointId": null,
"Quantity": 240,
"MHQ": 10,
"Price": 4.20,
"PriceStructure": "Variable",
"PriceEscalationMechanism": null
}
]
}
```

Forma
Pattern

Forma
Pattern

[A3.11 Auction Curtailment Notice \(to be completed\)](#)

[A3.12 Daily Auction Service Curtailment Information \(to be completed\)](#)

[A3.13 Shipper List \(to be completed\)](#)

[A3.14 Short Term Transaction \(to be completed\)](#)

[A3.15 Storage Capacity Transaction \(to be completed\)](#)

[A3.16 LNG Transaction \(to be completed\)](#)

[A3.17 LNG Shipment \(to be completed\)](#)

[A3.18 Gas Field Interest Detail \(to be completed\)](#)

[A3.19 Gas Field Interest \(to be completed\)](#)

[A3.20 Facility Development \(to be completed\)](#)

A4. Validation Error Codes

These are the validation error codes for all transaction types

Label	Description
{0}	The invalid data provided for a field in the uploaded file.
{1}	The data type for a field in the uploaded file.

Error code	Error type	Transaction log description
0	File processing success	File processed without errors or alarms, {0} rows accepted
1	File processing error	Unexpected file processing error
2	File processing error	Unexpected file processing error
3	File processing error	File name provided does not comply with COMPID_TRANSACTIONNAME_CCYYMMDDHHMMSS.CSV naming convention
4	File processing error	The transaction name {0} within the file name provided is not of a known type
5	File processing error	The transaction fields do not match those associated to the transaction name
8	File processing error	Invalid data provided {0} for type {1}
9	File processing error	Empty file submitted
89	File processing error	Rows with duplicate key information are present in the file
20	Date	The GasDate {0} provided is not a valid date
21	Date	The GasDate {0:yyyy-MM-dd HH:mm:ss} provided must be a current or future date
22	Date	The EffectiveDate {0} provided is not a valid date.
23	Date	Effective Date {1:yyyy-MM-dd HH:mm:ss} for facility {0} is in the past.
24	Date	The TerminationDate {0} provided is not a valid date.
25	Date	The TerminationDate {0:yyyy-MM-dd HH:mm:ss} provided must be a current or future date
26	Date	Gas Date {1:yyyy-MM-dd HH:mm:ss} for facility {0} is not a historical date
27	Date	The TerminationDate {0:yyyy-MM-dd HH:mm:ss} must be later than the EffectiveDate
28	Date	ToGasDate must be equal to or greater than FromGasDate
29	Date	Effective Date {1:yyyy-MM-dd} for connection point {0} is in the past
30	Date	Month {0} provided is not valid. Must be between 1 and 12
31	Date	Year {0} provided is not valid
32	Date	Gas Date {0:yyyy-MM-dd HH:mm:ss} is not a historical date
33	Date	FromGasDate must be equal to or greater than current gas day.
34	Date	FromGasDate must not overlap the date range of any other row for the same FacilityId and Outlook Type.

Error code	Error type	Transaction log description
35	Date	ToGasDate must not overlap the date range of any other row for the same FacilityId and Outlook Type.
36	Date	FromGasDate and ToGasDate can only be a maximum of one calendar month apart.
37	Date	Gas Date {0:yyyy-MM-dd} can be for either of D, D+ \pm 1 or D+ \pm 2.
105	Date	Gas Date is older than a month.
40	Identifier	Facility Id {0} does not exist in the database.
41	Identifier	Participant is not the registered operator of Facility {0}.
42	Identifier	Zone ID {0} does not exist in the database.
43	Identifier	Zone ID {1} is not associated with Facility Id {0}.
44	Identifier	The OfferId provided does not exist in the database.
45	Identifier	The UserId provided does not exist on the database.
46	Identifier	The UserId provided is not associated with the file provider.
47	Identifier	The EventId provided does not exist on the database.
48	Identifier	The file provider is not authorised to upload transactions of this type.
49	Identifier	ConnectionPointId {0} does not exist in the database.
50	Identifier	Participant is not the registered operator of connection point {0}.
51	Identifier	Participant is not permitted to submit data for {0} transactions.
52	Identifier	Zone does not exist in the database for Facility {0}.
53	Identifier	Facility Id {0} is not a valid storage facility.
54	Identifier	Facility Id {0} is not a valid pipeline.
60	Type	Capacity type {1} for facility {0} is not valid.
61	Type	Demand type {1} for facility {0} is not valid.
62	Type	Nomination type {1} for facility {0} is not valid.
63	Type	Outlook type {1} for facility {0} is not valid.
64	Type	Flow type {1} for facility {0} is not valid.
65	Type	Offer type {1} for facility {0} is not valid.
66	Type	Status type {1} for facility {0} is not valid.
67	Type	Event type {1} for facility {0} is not valid.
68	Type	Flag type {1} for facility {0} is not valid.
69	Type	Quality type {1} for facility {0} is not valid.
70	Type	Outlook type {0} is not valid for a pipeline. Valid values are TRANC and REVC.
71	Type	Outlook type {0} is not valid for a storage facility. Valid values are PRODC, WDLC, INJC.
72	Type	Outlook type {0} is not valid for a production facility. Valid value is PRODC.

Error code	Error type	Transaction log description
73	Type	BuySell value {0} is not valid
74	Type	Nomination type {0} is invalid for a Declared Transmission System facility. Valid values are D+0, D+1, D+2, D+3, D+4, D+5 or D+6.
75	Type	Nomination type {0} is invalid for a non-Declared Transmission System facility. Valid values are FCNOM, FIRMN or FIRMR.
76	Type	Flow Direction {0} is not valid
77	Type	Transmission Direction {0} is not valid

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