

# OPERATING MANUAL

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## 1. GENERAL PROVISIONS

- 1.1 Terms defined in the *Conditions* shall have the same meaning when used herein. This *Operating Manual* shall form part of the *Conditions* as amended from time to time and where it modifies provisions in or conflicts with the *Conditions*, the *Conditions* shall govern and take precedent.

For the purposes of this Exhibit A, except where it expressly provides otherwise, the following expressions shall have the meanings ascribed to them in this Article 1.1 and shall include the plural as well as the singular:

"Cumulative Gas Balance"  
shall mean the aggregation of the *Hourly Gas Balances*.

"D"  
shall mean the *Gas Day* on which the transmission and/or other services which is/are nominated is/are meant to be performed by *BBL Company*, and *D-1* means the *Gas Day* preceding *D*. *D* starts at 6.00 hours *LET* and ends at 6.00 hours *LET* the next *Gas Day*.

"Day" and "Daily"  
shall have the same meaning as *Gas Day* in the *Conditions*.

"Downstream Party"  
shall mean a third party receiving *Gas* from *Shipper* at *TTF* or the *Exit Point*.

"Prevail Rule"  
shall mean with respect to the *Quantity of Gas* (re)nominated by *Shipper* and the *Quantity of Gas* (re)nominated by the relevant *Upstream Party* or *Downstream Party*, that the *Properly (Re) Nominated Quantity of Gas* by *Shipper* at the *Entry Point* reverse Flow or the *Exit Point* shall prevail.

"Pair of Shipper Codes"  
shall mean the *Shipper Code* of *Shipper* together with the shipper code of an *Upstream Party* or a *Downstream Party* under a (Re)*Nomination* made by *Shipper*.

"Transfer Point BBL – Trading zone" or "TPBT"  
shall mean the virtual transfer point that administers the transfer of *Gas* from the trading zone to the BBL balancing zone (or vice versa).

"TTF-Trading Message"  
shall mean a (re) nomination for trading on *TTF*.

"Upstream Party"  
shall mean a third party delivering *Gas* to *Shipper* at the *Entry Point Reverse Flow* or *TTF*.

- 1.2 *BBL Company* and *Shipper* shall conduct their respective operations in a prudent and efficient manner. *Parties* will inform each other as soon as reasonably possible, of any foreseeable condition or occurrence that could affect the *Quantity of Gas*, quality of *Gas* or pressure of *Gas* at the *Entry Point Reverse Flow* or at the *Exit Point*.
- 1.3 Both *Parties*

- 1.7 Any *(Re)Nomination*, *TTF Trading Message* and *Confirmation* under this *Operating Manual* shall relate to *LET* and shall be expressed in *kWh* (rounded to the nearest *kWh*) unless agreed otherwise in writing.
- 1.8 In accordance with the Edig@s Message Implementation Guidelines (MIG) version 5.1 or version 6.1, the quantities transmitted in the Edig@s messages can have a positive or negative value. In order to avoid any misunderstanding in the meaning of those quantities Edig@s has defined the following sign convention:
- (Minus sign) qualifies a *Quantity of Gas* as delivered at *TTF* or at *the Entry Point Reverse Flow* by an *Upstream Party*.
  - + (Plus sign) qualifies a *Quantity of Gas* as received from the *BBL-Facilities* at the *Exit Point* or received at *TTF* by a *Downstream Party*.

Alternately *BBL-Shippers* may, instead of the sign convention, use the following code:

Z02 qualifies a *Quantity of Gas* as delivered at *TTF* by an *Upstream Party*.

Z03 qualifies a *Quantity of Gas* as retrieved from the *BBL-Facilities* at the *Exit Point* by a *Downstream Party*.

- 1.9 All documents, notices or other information, other than *Nominations* and *Confirmations*, required to be supplied under this *Operating Manual* should be exchanged by a secure data communication system.
- 1.10 The basic operating philosophy chosen for the *BBL-Facilities* is a system where the pipeline is kept at a more or less constant average pressure and the flow into and from the pipeline is kept equal as much as possible. Only for operational optimisation (e.g. very low inlet pressures at the grid of *National Gas*) the pipeline pressure will be lowered to either save compression power or heating power for the *BBL-Facilities*.

## 2. NOMINATION PROCEDURE

### 2.1 a Nomination procedure *Forward Flow*

This procedure describes how to (Re)Nominate in a *Forward Flow Direction* situation.

#### 2.1 a.1 Weekly *Nominations*

The *Shipper* (or a third party acting on behalf of the *Shipper*) shall at the latest on Friday of each week before 14:00 hours *LET* provide *BBL Company* with a weekly *Nomination* containing for each *Gas Day* of the following week, starting on Monday 06:00 *LET*, the *Shipper Codes* of the relevant *Downstream Parties*, and the *Daily Quantities of Gas* to be made available by the *Shipper* to such *Downstream Parties*.

In case the *Shipper* fails to send the weekly *Nomination* before the specified due time above, *BBL Company* will deem the weekly *Nomination* to be zero (0) for each *Gas Day* of the following week.

#### 2.1 a.2 Daily *Nominations*

*Shipper* (or a third party acting on behalf of *Shipper*) shall provide *BBL Company* with a *Nomination* for each *Hour* of each *Gas Day D* for the *Exit Point*. This set of twenty four (24) *Nominations* is defined as a *Daily Nomination* (twenty three (23) & twenty five (25) during the switches to respectively from the daylight saving periods).

Any *Nomination* or, with respect to each *Hour* for which a (Re)*Nomination* is issued, (Re) *Nomination* shall contain for each *Hour* the *Shipper Codes* of the relevant *Downstream Parties* and the *Quantities of Gas* to be made available by *Shipper* to each *Downstream Party*. If applicable, the *Nomination* shall also include the *Quantities of Gas* to settle the *Gas Balance* in accordance with Article 8.3 of this *Operating Manual*.

The *Shipper* (or a third party acting on behalf of the *Shipper*) may send a *Nomination* up to 179 *Gas Days* in advance of *Gas Day D*. Any *Nomination* will remain valid until it is replaced by a (Re) *Nomination*.

A *Nomination* for *Gas Day D* must be received by *BBL Company* at the latest at 14:00 hours *LET* on *Gas Day D-1*.

In case the *Shipper* exceeds the *Nomination* deadline for *Gas Day D*, the nominated *Hourly Quantities of Gas* shall be deemed to be equal to the *Daily Quantities of Gas* from the weekly *Nomination* divided by twenty four (24), unless (re)nominated in accordance within the (Re) *Nomination* deadline.

*Gas Day* of the following week, starting on Monday 06:00 *LET*, the *Shipper Codes* of the relevant *Upstream Parties*, and the *Daily Quantities of Gas* to be off taken by *Shipper* from such *Upstream Parties*.

In case the *Shipper* fails to send the weekly *Nomination* before the specified due time above, *BBL Company* will deem the weekly *Nomination* to be zero (0) for each *Gas Day* of the following week.

## 2.1 b.2 *Daily Nominations*

The *Shipper* (or a third party acting on behalf of the *Shipper*) shall provide *BBL Company* with a *Nomination* for each *Hour* of each *Gas Day D* for the *Entry Point Reverse Flow*. This set of twenty four (24) *Nominations* is defined as a *Daily Nomination* (twenty three (23) & twenty five (25) during the switches to respectively from the daylight saving periods).

Any *Nomination* or, with respect to each *Hour* for which a *(Re)Nomination* is issued, *(Re) Nomination* shall contain for each *Hour* the *Shipper Codes* of the relevant *Upstream Parties* and the *Quantities of Gas* to be off taken by *Shipper* from each *Upstream Party*. If applicable, the *Nomination* shall also include the *Quantities of Gas* to settle the *Gas Balance* in accordance with Article 8.3 of this *Operating Manual*.

The *Shipper* (or a third party acting on behalf of the *Shipper*) may send a *Nomination* up to 179 *Gas Days* in advance of *Gas Day D*. Any *Nomination* will remain valid until it is replaced by a *(Re) Nomination*.

A *Nomination* for *Gas Day D* must be received by *BBL Company* at the latest at 14:00 hours *LET* on *Gas Day D-1*.

In case the *Shipper* exceeds the *Nomination* deadline for *Gas Day D*, the nominated *Hourly Quantities of Gas* shall be deemed to be equal to the *Daily Quantities of Gas* from the weekly *Nomination* divided by twenty four (24), unless *(re)nominated* in accordance within the *(Re) Nomination* deadline.

In case the *Shipper's (Re)Nomination* for one (1) or more *Hours* exceeds the *Transmission Capacity* on the *Entry Point Reverse Flow* for said *Hour(s)*, this *(Re)Nomination* shall be rejected by *BBL Company* whereby the reason of this rejection will be mentioned in the *Confirmation*.

*(Re)Nominations* before or within *Gas Day D* regarding *Hour H*, received by *BBL Company* at least two (2) full clock hours in advance of that *Hour H*

nominate, not only for itself, but also instead and on behalf of its customers regarding (re)nominations with that gas exchange operator or its clearing party as counter party.

### 2.3 Netting of *Nominations*

The total sum of *Forward Flow Nominations* and *Reverse Flow Nominations* by all Shippers as described in article 2.1a and 2.1b above will be netted off against each other when they occur for the same *Hour* on a *Gas Day*.

For any *Hour* the physical flow direction of the BBL pipeline can either be in the *Forward Flow Direction* or in the *Reverse Flow Direction*.

*BBL Company* will publish on its website the flow direction of the BBL pipeline.

The situation can arise that the net *Nominations* of all *Shippers* are in the *Forward Flow Direction* whilst the BBL pipeline flows in the *Reverse Flow Direction*, or the other way around. If this is the case, *BBL Company* will apply the Net Nomination Tool (tool) to guarantee all nominations.

The tool will be triggered after *Nominations* of all *Shippers* under the articles 2.1a, 2.1b and 2.2 are confirmed. The matching and confirmation process for any *Hour* is performed in the usual way as described in article 4 of this *Operating Manual*.

After this the following steps will take place:

1. *BBL Company's* dispatchers will notice via an automatically generated IT message that net *Nominations* of all *Shippers* are in the *Forward Flow Direction* whilst the BBL pipeline flows in the *Reverse Flow Direction*, or the other way around.
2. *BBL Company's* dispatchers will then apply an additional nomination which will be automatically generated for a contracted third party.
3. This additional nomination will be added to those *Shipper Nominations* that have already been confirmed such that all *Nominations* are netted off.
4. This will resolve the situation where the net nominations and the BBL flow direction are not in line with each other.

The application of this tool does not change and cannot influence the contracted positions of *BBL Shippers* and/or *Nominations* either by *BBL Company* or by the third party, since the matching and confirmation process already has taken place.

The application of this tool does therefore not affect *Shipper's* rights and obligations under the articles 2.1a, 2.1b and 2.2 above.

## 3. INTERRUPTIBLE SPECIFICS

*Nominations for Interruptible Transmission Capacity* will be subject to the same procedure as described in Article 2 of this *Operating Manual*. The availability of *Interruptible Transmission Capacity* can be constrained by the aggregate of *Firm Forward Flow Direction* nominations and *Firm Reverse Flow Direction* nominations.

If the aggregate of all *BBL-Shippers' Firm* and

#### 4. MATCHING AND CONFIRMATION

- 4.1 Any *Daily (Re)Nomination* received by *BBL Company* will be validated against the conditions of the *Agreement* and be matched with the data from *National Gas*.

In addition, *BBL Company* will perform a matching procedure consisting of comparing *Shipper's (Re)Nominations* at the *Entry Point Reverse Flow* or the *Exit Point* with those for the *National Gas* entry/exit point. If they are not equal, after taking into account any settlement of the *Gas Balance*, the *Prevail Rule* will be applied to *(Re)Nomination*, as described under Article 4.2 of this *Operating Manual*.

- 4.1.1 Any *TTF Trading Message* sent by the *BBL Shipper* to the *Trading Zone Manager* for trading at the *TTF* will be validated by the *Trading Zone Manager* and be matched by *Trading Zone Manager* with the nomination data from upstream and/or downstream counter shippers at the *TTF*.

- 4.2 Upon execution of Article 4.1 of this *Operating Manual*, *BBL Company* will apply the following matching rules to each *(Re)Nomination* made for any *Hour*:

- 1) if the *Pairs of Shipper Codes* do not match, the *Quantities of Gas* (re)nominated by the *Shipper* for that *Hour* shall prevail and be approved with respect to such *Pairs of Shipper Codes (Prevail Rule)*;
- 2) if the (re)nominated sign or code (by the *Shipper*) with respect to a *Pair of Shipper Codes* is equal to the (re)nominated sign or code of the relevant *Upstream Party* or *Downstream Party*, the (re)nominated *Quantity of Gas* (by the *Shipper*) for that *Hour* shall prevail and be approved with respect to such *Pairs of Shipper Codes (Prevail Rule)*;
- 3) if the (re)nominated *Quantity of Gas* (by the *Shipper*) with respect to a *Pair of Shipper Codes* is not equal to the (re)nominated *Quantity of Gas* of the relevant *Upstream Party* or *Downstream Party*, the *Quantity of Gas* (re)nominated (by the *Shipper*) shall be deemed to be equal for that *Hour* to the *Quantities of Gas* nominated by the *Shipper (Prevail Rule)*.
- 4) If the *Shipper* does not have a *Balancing Portfolio*, the *Quantities of Gas* (re)nominated by the *Shipper* for that *Hour* shall be deemed to be zero (0) *kWh*

Where none of (1) to (4) above applies there is a "match" and the *Quantity of Gas* (re)nominated for the relevant *Pair of Shipper Codes* for that *Hour* shall be accepted by *BBL Company*.

- 4.3 After validation and matching according to Article 4.2 of this *Operating Manual*, *BBL Company* shall issue a *Confirmation*. Any *Confirmation* shall contain for each *Hour* of *Gas Day D* besides the *Shipper Codes* of the relevant

*BBL Company* shall use the quantities indicated on the last sent *Confirmation* referring to *Gas Day D* as the basis for allocation calculations regarding *Gas Day D*.

- For the avoidance of doubt:
- confirmed quantities may be lower than the corresponding (re)nominated quantities, and
- confirmed quantities may exceed the corresponding (re)nominated quantities, and
- it is the *Shipper's* responsibility to check for the receipt of the *Confirmation*, to take notice of the content of the *Confirmation* and to decide if further actions by the *Shipper* (e.g. notification of *Shipper's* customer) are required, and
- *BBL Company* is not allowed to change or withdraw any issued *Confirmation*, subject to Article 4.5 of this *Operating Manual*.

4.6 In case *BBL Company* faces constraints with respect to the deliveries and offtakes at the *Entry Point Reverse Flow* or the *Exit Point* (for reasons including mismatches, non availability of *Interruptible* capacity, *Entry Gas Reverse Flow* or *Exit Gas* which does not comply with the quality and/or pressure provisions of the *Conditions*, or maintenance) in such a way that a *Nomination* cannot be met, *BBL Company* shall issue a *Confirmation* containing the remaining quantities to be received by the *Shipper* from *Upstream Parties* and the quantities to be made available by the *Shipper* to *Downstream Parties*.

The available capacity will be allocated between *Shippers* in accordance with Article 8.3 of the *Conditions* i.e. nominations within *Firm* capacity will have the first priority. Capacity will be allocated in the ratio of the *Shippers' Firm Transmission Capacity* holding to the aggregate *Firm* capacity of the pipeline.

Where the constraint is not caused by maintenance, damage to the *BBL Company* transmission pipeline or quality or pressure deficiency of *Gas*, *BBL Company* will respect the priority as laid down in Article 8.3 of the *Conditions* when determining the figures for the confirmations.

## 5. MEASUREMENT OF QUANTITIES

### 5.1 Introduction

The flow of *Gas* is measured at both the *Entry Point Reverse Flow* and the *Exit Point* respectively by facilities owned and operated by *BBL Company*.

### 5.2 Measurement differences

In the event that incorrect operation of the measuring equipment is ascertained at the *Entry Point Reverse Flow* or *Exit Point*, the *Shipper* shall not be required to accept any retroactive allocation with regard to the *Entry Point reverse Flow* or *Exit Point* where an *OBA* exists.

In case no *OBA* exists at the *Entry Point Reverse Flow* or *Exit Point* and *BBL Company* ascertains incorrect operation of the metering equipment which measures the flow to or from the transmission grid operated by *BBL Company*, but the date of such incorrect operation cannot be determined, then such incorrect operation shall be deemed to have commenced on a date halfway between the date on which such incorrect operation is ascertained and the date of the last preceding uncontested check of metering equipment. The *Quantities of Gas* delivered under the *Agreement* during the period of incorrect operation of the metering equipment will be adjusted according to the reasonable estimate of *BBL Company*. The period within which delivered quantities will be readjusted shall be limited to the period from the date of the last preceding uncontested check of metering equipment. The date incorrect operation is ascertained will be deemed to be the date the check was performed which showed the incorrect operation of the metering equipment. Reallocation during that period will be performed pursuant to the provisions of the *Allocation Rules*; readjustment of delivered *Quantities of Gas* will be settled via the accumulated *Gas Balance or OBA*, depending on the agreed amendment regime with *National Gas*.

### 5.3 Minimum flow rates

The minimum flow rate of both the *Entry Point Reverse Flow* and the *Exit Point* technical facilities is 200,000 kWh/h. At this flow rate the total uncertainty of the amount of energy on an *Hourly* basis shall not exceed zero decimal seven five percent (0.75%) as provided for in Article 6.1.1 of the *Conditions*.

### 5.4 Publication of measured quantities

The measured quantities on the *Entry Point Reverse Flow* and on the *Exit Point* will be published on the *Website* ([www.bblcompany.com](http://www.bblcompany.com)), if technically possible and insofar this information can be published without jeopardising confidentiality. In other cases, the measured quantities can be found *ENTSOG's* transparency platform (<https://transparency.entsog.eu/>).

## 6. OPERATIONAL CONTROL

### 6.1 General

After having completed the matching procedure at both the *Entry Point Reverse Flow* and *Exit Point* the compressor(s) at the *Connection Point* and the flow control valve at the *Entry Point Reverse Flow* and *Exit Point* will be set to the aggregate flow rate for the relevant *Hour*.

*BBL Company* will control the flow at the *Connection Point* and at the *Entry Point Reverse Flow* and *Exit Point* in such a way that the physical flow will equal as far as possible the sum of the confirmed *Quantities of Gas* of all *Shippers* for each *Hour*.

### 6.2 Minimum net flow control

If the aggregate of all *Shippers'* confirmed *Hourly Quantity of Gas* would require a physical flow below the minimum rate of the measurement facilities at the *Connection Point* and the *Entry Point reverse Flow* or *Exit Point*, then *BBL Company* will use reasonable endeavours to offtake or redeliver intermittently at an instantaneous rate at, or above, the minimum rate of the measurement facilities at that *Connection Point* and that *Entry Point Reverse Flow* or *Exit Point*, subject to *Gas* being made available or being offtaken by *Shippers* at the same instantaneous rate. If *BBL Company* is unable to arrange to offtake or redeliver *Gas* intermittently on or above the required minimum rate, then *BBL Company* will request *Shippers* to submit revised *Nominations* such that the aggregate of *Shippers'* confirmed *Hourly Quantity of Gas* will require a physical flow at the *Entry Point Reverse Flow* or *Exit Point* at, or above, the minimum rate of the measurement facilities at the *Connection Point* and the *Entry Point Reverse Flow* or *Exit Point*.

This procedure is applicable if an *OBA* is in place at a particular point. If there is no *OBA* in place, *BBL Company* will not drop the flow below the minimum flow rate unless agreed with the *BBL-Shippers*.

If *BBL Company* is forced to maintain the flow rate at the minimum level or to bring the flow rate down to zero (0), *BBL Company* will send a revised *Confirmation* with recalculated confirmed *Quantities of Gas* based on the following priority schedule:

- First the *Shippers* with confirmations regarding the *Interruptible Transmission Capacity* using the pro rata principle; then
- *Shippers* with confirmations regarding *Firm Transmission Capacity*.

### 6.3 Flow variation restrictions

Flow variations are restricted by:

- a) The contractual arrangements with the *NNO's* at both the *Connection Point* and the *Entry Point Reverse Flow* or *Exit Point*, and
- b) The operating philosophy of *BBL Company</*

## 7. ALLOCATION

### 7.1 Introduction

Allocation is the process by which *Gas* is apportioned on an *Hourly* basis to *Shippers*. Allocation calculations are performed separately for each flow direction (*Forward Flow Direction* and *Reverse Flow Direction*) at the *Entry Point Reverse Flow*, *TTF*, the *TPBT* as well as the *Exit Point*.

Allocation in general consists of:

- Measuring physical deliveries of *Gas*, and
- Identifying confirmed *Quantities of Gas* in the *Forward* and *Reverse Flow Direction*, and
- Allocating this calculated flow pro rata to the confirmations.

Where a *Shipper* has confirmed *Quantities of Gas* in both flow directions at the same time, they will be treated separately for allocation purposes (even if they are at the same *Entry Point Reverse Flow* or *Exit Point*).

### 7.2 Allocation at *TTF*

For *TTF* the allocated *Quantities of Gas* at *TTF* are deemed to be equal to the *Quantities of Gas* according to the confirmations.

### 7.3 Allocation at the *TPBT*

For the *TPBT* the allocated *Quantities of Gas* at the *TPBT* are deemed to be equal to the *Quantities of Gas* according to the *Confirmations*.

### 7.4 Allocation at the *Entry Point Reverse Flow* or the *Exit Point*

For the *Entry Point Reverse Flow* or the *Exit Point*, the *Quantities of Gas* will be allocated as described in Article 7.1 of this *Operating Manual*. Any differences between the measured volume and the sum of the *Confirmations* of the *Shippers* will be allocated to the *Shipper* in proportion to the *Confirmations* of the *Shipper* and the *Confirmations* of other *Shippers* where confirmed *Quantities of Gas* in the *other direction* are deemed to be met.

If an *OBA* for the *Entry Point Reverse Flow* or *Exit Point* is concluded, the allocated *Quantities of Gas* shall be deemed to be equal to the *Quantities of Gas* according to the *Confirmations*, unless this is not feasible under the *OBA*, in which case allocation shall then be made proportionally on the basis of the *BBL-Shippers'* confirmed *Quantities of Gas*.

### 7.5 Reallocation

Reallocations are only allowed in exceptional circumstances.

#### 7.6 Publication of allocations

The (provisional) allocations on the *Entry Point Reverse Flow*, the *Exit Point* and the *TPBT Point* will be calculated every *Hour* in accordance with the applicable *Allocation Rules* and made available by on-line electronic transmission to the *Shippers* and *National Gas*.

The allocations on *TTF* will be calculated on a daily basis in accordance with the applicable *Allocation Rules* and made available by on-line electronic transmission to the *Shippers*.

If the allocations are based on provisional measured quantities, final allocations shall be made available at the beginning of the following *Month*.

## 8. GAS BALANCE

### **Forward Flow Direction**

- 8.1 a For any *Hour* during a *Gas Day* the difference between the allocated *Quantity of Transfer Gas Forward Flow* at *TTF* and the allocated *Quantity of Exit Gas* will be allocated to the *Gas Balance* for that *Gas Day*.

The *Gas Balance* is negative if the allocated *Quantity of Exit Gas* is higher than the allocated *Quantity of Transfer Gas Forward Flow*. The *Gas Balance* is positive if the allocated *Quantity of Exit Gas* is lower than the allocated *Quantity of Transfer Gas Forward Flow*.

For clarification:

The *Gas Balance* for each *Hour* (H) = the allocated *Quantity of Transfer Gas Forward Flow* for *Hour* (H) – the allocated *Quantity of Exit Gas* for *Hour* (H).

The *Cumulative Gas Balance* at the end of *Hour* (H) = the *Cumulative Gas Balance* at the end of *Hour* (H-1) + the *Gas Balance* of *Hour* (H).

### **Reverse Flow Direction**

- 8.1 b For any *Hour* during a *Gas Day* the difference between the allocated *Quantity of Entry Gas Reverse Flow* at the *Entry Point Reverse Flow* and the allocated *Quantity of Transfer Gas Reverse Flow* will be allocated to the *Gas Balance* for that *Gas Day*.

The *Gas Balance* is negative if the allocated *Quantity of Transfer Gas Reverse Flow* is higher than the allocated *Quantity of Entry Gas Reverse Flow*. The *Gas Balance* is positive if the allocated *Quantity of Transfer Gas Reverse Flow* is lower than the allocated *Quantity of Entry Gas Reverse Flow*.

For clarification:

The *Gas Balance* for each *Hour* (H) = the allocated *Quantity of Entry Gas Reverse Flow* for *Hour* (H) – the allocated *Quantity of Transfer Gas Reverse Flow* for *Hour* (H).

The *Cumulative Gas Balance* at the end of *Hour* (H) = the *Cumulative Gas Balance* at the end of *Hour* (H-1) + the *Gas Balance* of *Hour* (H).

- 8.2 The *Cumulative Gas Balance*, positive or negative, shall not exceed ten decimal zero percent (10.00%) of the total *Transmission Capacity* (for one (1) *Hour*) in accordance with the applicable *Agreement(s)*. The <

- 8.5 The *Gas Balance* settlement in kind can be made either within the *Shipper's* contracted *Transmission Capacity* or outside this contracted *Transmission Capacity* at the discretion of the *Shipper*. *BBL Company* will, without prejudice, make available, free of charge, the additional capacity required for the *Settlement* of the *Gas Balance* for the period of time agreed between the *Parties* in order to settle the *Gas Balance*.  
It is understood that the capacity can be restricted due to technical and operational limits and will be subject to Article 2 and 6 of this *Operating Manual*.
- 8.6 The (provisional) *Gas Balance* account will be calculated every *Hour* and made available to *BBL-Shippers* by on-line electronic transmission.
- 8.7 If possible after consultation with the *Shipper*, *BBL Company* has the right to make available the *Hourly Quantities of Transfer Gas Reverse Flow or Exit Gas* in such a way that the sum of the *Hourly Confirmations* during the relevant *Gas Day* is met, provided the *NNO* concerned agrees and the *Shipper* meets its volume entry requirements with the *NNO* concerned.

## 9. QUALITY AND PRESSURE SPECIFICATIONS

### 9.1 Quality specification at the *Connection Point* and the *Entry Point Reverse Flow* or the *Exit Point*

The quality specifications for the *Connection Point* will be the same as the quality specifications for the *Entry Point Reverse Flow* and the *Exit Point*. BBL Company will ensure that the quality specifications required to exit the BBL-Facilities as specified by the relevant NNO will not be more restrictive than specifications of the *Connection Point*, *Entry Point Reverse Flow* or the *Exit Point*. The quality specifications for the *Connection Point* and the *Entry Point Reverse Flow* or the *Exit Point* are laid down in the respective GCA's. For purpose of convenience only, the following has been taken from the GCA. In case of deviance, the specifications in the GCA shall be leading

#### Quality specifications

The Gas at the (Re)delivery Point shall have the following quality specifications:

1. The total sulphur content shall not exceed 52.7 mg/m<sup>3</sup> (n).
2. The sulphur content caused by Hydrogen Sulphide (H<sub>2</sub>S) shall not exceed 5 mg/m<sup>3</sup>(n).
3. The hydrogen content shall not exceed 0.1 mol %.
4. The carbon dioxide content shall not exceed 2.5% (mol/mol).
5. The water dew point shall be below 263.15 K (– 10 °C) at 70 bar(e).
6. The hydrocarbon dew point shall be below 271.15 K (– 2 °C) at any pressure up to 70 bar(e).
7. The oxygen content shall not exceed 10 ppm (mol/mol).
8. The Gas shall have a temperature between 311.15 K (38 °C) and 272.15 K (1 °C).
9. The Wobbe Index shall not exceed 56.9 MJ/m<sup>3</sup> (n) nor be less than 49.79 MJ/m<sup>3</sup> (n).
10. The Superior Calorific Value shall not exceed 47.6 MJ/m<sup>3</sup> (n) nor be less than 38.93 MJ/m<sup>3</sup> (n).
11. The incomplete combustion factor shall not exceed 2.10.
12. The soot index shall not exceed 0.70.

However, as long as the entry specifications in the GCA between National Gas and BBL Company (the Interconnection Agreement) have a different range with regard to certain specifications the Interconnection Agreement values will apply. These specifications and their values are at the date of this Agreement as follows:

- The Wobbe Index shall not exceed 54.23 MJ/m<sup>3</sup> (n) nor be less than 49.79 MJ/m<sup>3</sup> (n).
- The Superior Calorific Value shall not exceed 44.62 MJ/m<sup>3</sup> (n) nor be less than 38.93 MJ/m<sup>3</sup> (n).
- The soot index shall not exceed 0.60.
- The incomplete combustion factor shall not exceed 0.48.

9.2 Pressure specifications at the *Connection Point* and the *Entry Point Reverse Flow* or the *Exit Point*.

The pressure specification for the *Connection Point* shall be agreed between *BBL Company* and *GTS* in such a way that the obligations of *Parties* under the *Agreement* will be fulfilled. The pressure of the *Gas* at the *Entry Point Reverse Flow* or the *Exit Point* shall be sufficient to allow the *Gas* to enter *BBL- Facilities*, but with a minimum of 57 bar (e). The pressure specification for the *Entry Point Reverse Flow* and the *Exit Point* shall be agreed between *BBL Company* and *National Gas* in such a way that the obligations of *Parties* under the *Agreement* will be fulfilled.

**10. BBL COMPANY CONTACT DETAILS**

**BBL Company**

Telephone: +31 50 521 15 00 (dispatching centre)  
+31 50 521 91 11 (switchboard, only during office hours)

Address : BBL Company V.O.F.  
Concourslaan 17  
9727 KC GRONINGEN

or  
BBL Company V.O.F.  
P.O. Box 225  
9700 AE GRONINGEN