

PUBLIC CONSULTATION PAPER

**on the Business Rules
to the Interconnection Agreement for
Interconnection Point Stara Zagora**

Article 1 - Definitions

The terms used in this IA shall have the meaning as follows:

Active TSO shall mean one of the adjacent TSOs which receives the single-sided nominations forwarded by the Network User(s). For the purpose of this IA, BTG is the Active Transmission System Operator.

Business day: shall be all days with the exception of Saturdays, Sundays and Bulgarian public holidays and rest days based on government decree.

Confirmed Quantity shall mean the quantity of Natural Gas confirmed by the **MSO** to be scheduled or re-scheduled to flow on a Gas Day D at the IP.

Cubic meter V_0 is the gas amount which at the temperature of 0 degrees Celsius ($^{\circ}\text{C}$) and the absolute pressure of 1.01325 bar, in the absence of water vapours, occupies the volume of one cubic meter (1m^3).

Cubic meter V_{20} is the gas amount which at the temperature of 20 degrees Celsius ($^{\circ}\text{C}$) and the absolute pressure of 1.01325 bar, in the absence of water vapours, occupies the volume of one cubic meter (1 m^3). For the purpose of this IA, this volume is calculated as per Annex 7B.

Daily Balance Position (DBP) shall mean a quantity calculated on a daily basis, for each Gas Day D of the period of implementation of the **Operational Balancing Account (OBA)** allocation procedure. The calculation of DBP for a specific Gas Day D is performed according to the following formula:

$$DBP^D = TDAQ^D - Q_M^D$$

Where:

Q_M^D is the measured quantity, expressed in kWh, of the physical flow through the IP towards the GR-BG direction or BG-GR direction during the Gas Day D;

$TDAQ^D$ is the Total Daily Allocated Quantity during the Gas Day D;

Downstream Operator shall mean the Party physically receiving the natural gas.

Double Sided Nominations (DSN) shall mean delivery nominations submitted by the pairs of Network User(s) who have successfully reserved unbundled capacity at the IP.

Exceptional event means any unplanned event that may cause, for a limited period, capacity reductions, affecting thereby the quantity or quality of gas at interconnection points, with possible consequences on interactions between the Parties as well as between any Party and its network users.

Firm capacity means gas transmission capacity contractually guaranteed as uninterruptible by the TSO.

Forecasted GCV shall mean the average GCV, calculated in the GMS Stara Zagora (for deliveries in the GR-BG direction) and GMS Stara Zagora (for deliveries in the BG-GR direction) by using ISO 6976, on the Gas Day D-2, immediately preceding the Gas Day D-1 on which the matching process for the Gas Day concerned (D) takes place. The Forecast GCV is expressed in kWh/m³ (reference combustion temperature 25 $^{\circ}\text{C}$, reference volume temperature 0 $^{\circ}\text{C}$).

Gas Day shall mean the period from 5:00 to 5:00 UTC the following day for winter time and from 4:00 to 4:00 UTC following day when daylight saving is applied. The reference date of any Gas Day is the date of the calendar day on which the Gas Day begins.

Gas Metering Station Stara Zagora (hereinafter referred to as Gas Metering Station or GMS Stara Zagora): shall mean the gas metering station located near Stara Zagora and owned by ICGB.

The GMS Stara Zagora has been designed, built and operated in accordance with the design specifications and operating standards and procedures, in accordance with sound and prudent gas industry practice, in accordance with international standards (for example EN and ISO) and in accordance with all laws, rules and regulations of any authority having jurisdiction above it.

The Gas Measuring Station Stara Zagora shall be used for commercial measuring and/or determination of the quantity and quality of gas delivered through IP STARA ZAGORA.

Gas quantity expressed in energy units shall mean the energy content of a given volume of gas calculated as the product of the gas volume expressed at normal reference conditions ($t=0^{\circ}\text{C}$) without decimals (truncated, not rounded), multiplied by the Gross Calorific Value (25/0)), expressed at normal reference conditions, with 6 decimals.

Gas Year shall mean the period of time beginning with the first Gas Day of October of the current year and ending with the last Gas Day of September of the next year.

Gross (Superior) Calorific Value (GCV) at Normal Reference Conditions shall be calculated for real gas according to ISO 6976 taking into consideration the normal reference conditions and combustion reference temperature of 25°C . The Gross Calorific Value is expressed in kWh/m^3 . These data shall be applied between the Parties while performing all duties as stipulated in this IA.

For energy calculation, the GCV in kWh/m^3 shall be used with a rounding at 6 decimals, with rounding up if the 7th decimal is 5 or more, and with a rounding down if the 7th decimal is 4 or less.

Gross (Superior) Calorific Value (GCV(25/20)) at Standard Reference Conditions shall be calculated for real gas according to ISO 6976 taking into consideration the standard reference conditions and combustion reference temperature of 25°C . The Gross Calorific Value is expressed in kWh/m^3 .

Hydrocarbon dew point means the temperature at which the hydrocarbons in gas begin to condense at a certain pressure.

Initiating System Operator (ISO) means the Party initiating the matching process by sending the necessary data to the Matching System Operator (**MSO**). For the purpose of this IA, ICGB is the **ISO**.

IP STARA ZAGORA shall mean the interconnection between the ICGB's Transmission System and the BTG's Transmission System near to Stara Zagora (on the territory of Bulgaria) and it is the physical connection of both systems in Block valve station 7 (BV7). The measurement and/or determination of quantities and quality of gas delivered at this IP shall be carried out at the Stara Zagora Gas Measuring Station.

Interruptible capacity means gas transmission capacity that may be interrupted by the transmission system operator in accordance with the conditions stipulated hereinafter.

Lead time means a period of two hours starting on the first full hour after nomination's submission, after which the actual implementation of the nomination starts.

Limitation range (LR) shall mean the allowed range of values of the **Total Balance Position**.

Lesser rule means that in case of different processed quantities at either side of the interconnection points, the confirmed quantity will be equal to the lower of the two processed quantities.

Matching process shall mean the process of comparing and aligning processed quantities of network users at both sides of the interconnection points, which will result in confirmed quantities for the network users. Nominations given by the Network Users are expressed in kWh/d during the matching process.

Matching System Operator (MSO) means the Party performing the matching process and sending the result of the matching process to the Initiating System Operator (**ISO**). For the purpose of this IA, BTG is the **MSO**.

Measured quantity means the quantity of gas that according to the measurement equipment has been physically transported across the interconnection point per time period.

Month: shall be a period beginning at 5:00 UTC in winter time, and 4:00 UTC in summer time on the first day of a calendar month and ending at the same time on the first day of the next calendar month.

Network User shall mean a natural person or legal entity that holds transportation capacity at the IP, on the basis of a transportation contract concluded either with ICGB and/or BTG. Each Network User is assigned a unique identification code by the respective Operator.

Network User Code shall mean a unique identification code assigned by an Operator to a registered Network User to be used for identification in the procedures and systems administered by the Operator.

Normal reference conditions of temperature, pressure and humidity to be used for measurement and calculations on natural gas are 273.15 K (0 °C) and 101.325 kPa (1.01325 bar (absolute)) for real dry gas.

Operational Balancing Account (OBA) is a joint account where the Daily Balance Position of both TSOs at the IP is recorded. BTG is the TSO responsible for calculating, on a daily basis, the Daily Balance Position and the Total Balance Position and update the Operational Balancing Account accordingly.

Pair of Network Users shall mean the mutually served, in line with corresponding transportation contracts, Network Users or group of Network Users at the both sides of the IP.

Passive TSO shall mean the TSO which receives the single-sided nominations forwarded by the active TSO. For the purpose of this IA, ICGB is the passive Transmission System Operator.

Processed quantity means the quantity of natural gas assessed by Parties, which takes into account the network user's nomination (respectively re-nomination) and contractual provisions as defined under the relevant transport contract;

Single Sided Nominations (SSN) shall mean delivery nominations submitted by the Network User(s) who have successfully reserved bundled capacity at the IP to the Active TSO.

Steering difference means the difference between the quantity of gas that the Parties has scheduled to flow and the measured quantity for an interconnection point.

Time: all the data regarding time shall be expressed using the **UTC INT NC**, except in the Matching Schedule tables (where time shall be in Central European Time).

Total Balance Position (TBP) shall mean the actual accumulation of DBP over a consecutive number of Gas Days. The calculation of TBP for each Gas Day D of the period of implementation of the OBA allocation procedure, is performed as follows:

1. For the first Gas Day D of implementation of the OBA allocation procedure, the TBP is set equal to the DBP calculated for this Gas Day D.
2. For each subsequent Gas Day D and up to (and including) the last Gas Day of the period of implementation of the OBA allocation procedure, the TBP for the Gas Day D shall be calculated as the algebraic sum of the TBP of Gas Day D-1 and the DBP for the Gas Day D concerned.

Negative TBP indicates that BTG is indebted towards the zero balance position, with a quantity equal to the absolute value of TBP. Positive TBP indicates that ICGB is indebted towards the zero balance position, with a quantity equals to the value of TBP.

Total Daily Allocated Quantity (TDAQ^D) shall mean a quantity defined as:

$$TDAQ^D = \sum_i Q_{A,F,i}^D - \sum_j Q_{A,B,j}^D$$

Where:

$Q_{A,F,i}^D$ is the allocated quantity, expressed in kWh (for a given pair of NUs in GR-BG direction, during the Gas Day D);

$Q_{A,B,j}^D$ is the allocated quantity, expressed in kWh (for a given pair of NUs in BG-GR direction, during the Gas Day D);

i , is the pair of NUs active in the GR-BG direction during the Gas Day D;

j , is the pair of NUs active in the BG-GR direction during the Gas Day D;

Upstream Operator: shall mean the Party delivering physically the natural gas.

Water dew point means the temperature at which the water vapours in gas begin to condense at a certain pressure.

Wobbe index shall mean an indicator of the interchangeability of fuel gases with different composition expressed by the Gross calorific value divided by the square root of relative density at the same specified metering reference conditions. The measurement unit is kWh/m³.

Article 7 - Business Rules

7.1 Network Users' setup and update

On a regular basis and as soon as possible but not later than five (5) Working Days before the new Network User plans the transmission, new Network User's codes for the ICGB's Transmission System and/or the BTG's Transmission System, respectively shall be discussed:

- ICGB shall communicate to BTG the list of Network User codes (according to Annex 1A), which shall be used by the Network Users for nominating gas quantities for transportation in the ICGB's Transmission System, whilst
- BTG shall communicate to ICGB the list of Network User codes (according to Annex 1B), which shall be used by the Network Users for nominating gas quantities for transportation in the BTG's Transmission System.

7.2 The Gross Calorific Values for daily matching process

7.2.1 For the performance of a transmission service at the IP for the purpose of daily matching process, the following rules shall apply:

- 7.2.1.1 ICGB shall notify BTG on the forecasted average GCV at the IP to be used for daily matching purposes for the GR-BG direction, during the first two Gas Days in the initial phase.
- 7.2.1.2 BTG shall notify ICGB on the forecasted average GCV at the IP to be used for daily matching purposes for the BG-GR direction, during the first two Gas Days in the initial phase.
- 7.2.1.3 The Forecasted Gross Calorific Values at the IP, shall be posted, after the Gas Day until UTC 10:00 (in winter time) and UTC 09:00 (in summer time), on the websites of BTG and ICGB.

7.2.1.4 The Forecasted Gross Calorific Value shall be used for the daily nomination/re-nomination and matching process.

7.3 Matching procedure

- a) The Network Users on the Transmission Systems shall be entitled to submit to BTG and ICGB double sided nomination for Gas Day D no later than UTC 13:00 (in winter time) and UTC 12:00 (in summer time) for Gas Day D-1.
- b) The Network Users shall submit all single sided (re-)nominations to the Active TSO.
- c) All processed single sided (re-)nominations shall be sent by the Active TSO to the Passive TSO for local processing using DELORD – ANC message according to Edig@s format regarding the single side (re-)nominations at IP by Network Users Pair. This shall be done as soon as technically possible and feasible but no later than 15 minutes after the full hour of the (re-)nomination was submitted by the Network Users. It should be noted that within this process, the Passive TSO has to process all single sided (re-)nominations that have been received from the Active TSO as if it would be a (re-)nomination sent by his own Network User, to ensure that the validation rules are respected.
- d) By UTC 13:45 (in winter time) and UTC 12:45 (in summer time) of the Gas Day D-1, ICGB shall send to BTG the DELORD message according to Edig@s-XML format regarding the Processed quantities for delivery/offtake for Gas Day D at IP by Network User pairs. The Processed quantities are accepted to be equally allocated per hours during Gas Day D.
- e) BTG shall carry out a matching procedure of the Processed quantities for delivery/offtake at the IP per Network User pairs and within 45 minutes after the receipt of the message under item d) a DELRES message shall be sent to ICGB according to Edig@s-XML format. If there is a difference in the Processed quantities at both sides of the IP, then the Lesser rule shall be applied.
- f) By UTC 15:00 (in winter time) and UTC 14:00 (in summer time) of Gas Day D-1, the Parties shall inform their Network Users about the confirmed quantities. Network Users who have submitted single sided nominations shall be informed by the Active TSO about their confirmed quantities.
- g) Network Users active on both sides of the IP shall have the right to re-nominate between UTC 15:00 (in winter time) and UTC 14:00 (in summer time) of Gas Day D-1 and UTC 02:00 (in winter time) and UTC 01:00 (in summer time) of Gas Day D. The Parties shall start a re-nomination cycle in the beginning of every hour, between UTC 16:00 (in winter time) and UTC 15:00 (in summer time) of Gas Day D-1 and UTC 02:00 (in winter time) and UTC 01:00 (in summer time) of Gas Day D. During each re-nomination cycle the notification and matching procedure according d) and e) shall apply. For re-nominations a lead time of two hours prior to the start of implementation of the nomination shall apply.
- h) Not later than two hours after the full hour following re-nomination request(s) receipt of Network Users, the Parties shall inform their Network Users about the confirmed quantities. Network Users who have submitted single sided re-nominations shall be informed by the Active TSO about their confirmed quantities.
- i) In case ICGB has not sent to BTG, until the expiration of the deadline specified in paragraph d) above Processed Quantities (DELORD) for a Gas Day D, BTG shall consider them to be equal to zero, for the implementation of the matching process.
- j) In case ICGB has not sent to BTG, in a given re-nomination cycle until the expiration of the deadline specified in paragraph g) above Processed Quantities (DELORD) for a Gas Day D,

BTG shall consider, for the implementation of the matching process, the last Processed Quantities for the Gas Day D, which were sent by ICGB to BTG.

- k) In case BTG has not sent Confirmed Quantities (DELRES) as a result of the Day-ahead nomination matching process for a Gas Day D to ICGB, until the expiration of the deadline specified in paragraph e) above, the Confirmed Quantities (DELRES) shall be considered equal to zero.
- l) In case BTG has not sent Confirmed Quantities (DELRES) for a Gas Day D to ICGB in a given re-nomination cycle, until the expiration of the deadline specified in paragraph e) above, the last Confirmed Quantities (DELRES) shall be considered as Confirmed quantities (DELRES) for that re-nomination cycle, as a result of the matching process.
- m) In case a nomination or re-nomination has not been submitted by a network user or has been rejected by a transmission system operator, for matching purposes the Parties shall use the network user's last confirmed quantity.
- n) The matching processes under Article 7.2 shall be carried out according to the provisions of Article 12.

Article 8 - Allocation

8.1 In respect of the allocation of gas quantities, BTG and ICGB establish allocation procedure ensuring consistency between the allocated quantities at both sides of the IP. This allocation procedure shall be based on the Operation Balancing Account (OBA), specified below.

8.2 Under the OBA allocation procedure the Natural Gas quantity allocated for a Gas Day D to a pair of Network Users at the IP shall be equal to the gas quantity confirmed for delivery/off-take, for that Gas Day D, to the said pair of Network Users, according to Article 7.2.

$$Q_{Al,F,i}^D = Q_{C,F,i}^D \text{ and}$$
$$Q_{Al,R,j}^D = Q_{C,R,j}^D ,$$

where:

- $Q_{C,F,i}^D$ is the Confirmed Quantity, for a given Pair of Network Users in the Forward Flow Direction, during the Gas Day D;
- $Q_{C,R,j}^D$ is the Confirmed Quantity, for a given Pair of Network Users in the Reverse Flow Direction, during the Gas Day D;
- $Q_{Al,F,i}^D$ is the quantity allocated, to a given pair of Network Users in the Forward Flow Direction, during the Gas Day D;
- $Q_{Al,R,j}^D$ is the quantity allocated, to a given pair of Network Users in the Reverse Flow Direction, during the Gas Day D;
- i, is the pair of Network Users active in the Forward Flow Direction during the Gas Day D;
- j, is the Pair of Network Users active in the Reverse Flow Direction during the Gas Day D;

8.3 The OBA allocation procedure shall not be applied in the event that:

- 8.3.1. The gas quality parameters are not in accordance with Annex 5 of the Agreement;
- 8.3.2. The pressure is not according to the specifications in Article 6 of the IA.
- 8.3.3. The provisions of paragraph 9.4, item (i) are implemented;

8.4 For each Day D, when any of the conditions in paragraph 8.3 is in effect, the daily measured quantity is allocated to the pairs of NUs proportionally to their confirmed Natural Gas

quantities in both directions of the IP. The OBA allocation procedure shall be re-applied on the next Day D+1 after the Day D in which all of the conditions in paragraph 8.3 are no longer in effect, unless both Parties mutually agree to postpone the application of the OBA for a specific period. Pro-rata allocated quantities shall be calculated by using the following formulas:

In the Forward Flow Direction:

$$Q_{AL,F,i}^D = Q_{C,F,i}^D + Q_{SD}^D * \frac{Q_{C,F,i}^D}{\sum_i Q_{C,F,i}^D + \sum_j Q_{C,R,j}^D}$$

In the Reverse Flow Direction:

$$Q_{AL,R,j}^D = Q_{C,R,j}^D - Q_{SD}^D * \frac{Q_{C,R,j}^D}{\sum_i Q_{C,F,i}^D + \sum_j Q_{C,R,j}^D}$$

Where:

Q_{SD}^D is the steering difference during the Day D:

$$Q_{SD}^D = Q_M^D - \sum_i Q_{C,F,i}^D + \sum_j Q_{C,R,j}^D$$

Each Day for which the pro-rata allocation procedure applies, the OBA is updated by calculating the TBP, considering DBP that equals to zero (0).

- 8.5** The indicative allocation of Natural Gas quantities shall be carried out via an ALOCAT message according to Edig@s-XML format, for each Pair of Network Users, on a daily basis, until UTC 8:30 (winter time) and UTC 7:30 (summer time) for the previous Day.

Article 9 - Operational Balancing Account

- 9.1** The Parties shall strive to reach an equality between the confirmed quantities and the actually metered quantities at the IP in order to maintain TBP as close as possible to zero, and to ensure that the LR specified in paragraph 9.2 is not violated.

- 9.2** The LR is specified by its lower limit value, which is set to kWh and its upper limit value which is set to kWh. The lower and / or upper value of the LR may be changed upon mutual agreement of ICGB and BTG, in case of justified operational needs, including but not limited to:

- (a) Exceptional events
- (b) Unplanned maintenance works
- (c) Scheduled flow below the GMS Stara Zagora minimum measurement and / or flow control limits.
- (d) Increase or decrease of the IP's technical capacity.

- 9.3** In order to carry out the indicative allocation of the Natural Gas quantities to each Pair of Network Users, for Day D, the Parties shall verify whether the LR, applicable for that Day D, is violated.

- (i) If for the Day D

$$TBP_{D-1} + \sum_i Q_{C,F,i}^D - \sum_j Q_{C,R,j}^D - Q_M^D > LR_{up}$$

or

$$TBP_{D-1} + \sum_i Q_{C,F,i}^D - \sum_j Q_{C,R,j}^D - Q_M^D < LR_{low}$$

the Parties shall carry out the indicative allocation of Natural Gas quantities in accordance with the provisions of paragraph 8.4.

(ii) If for the Day D

$$LR_{low} \leq TBP_{D-1} + \sum_i Q_{C,F,i}^D - \sum_j Q_{C,R,j}^D - Q_M^D \leq LR_{up}$$

the Parties carry out the indicative allocation of Natural Gas quantities in accordance with the provisions of paragraph 8.2.

9.4 In order to carry out the final allocation of the Natural Gas quantities to each Pair of Network Users, for each Day D of the Month M, the Parties shall verify, based on validated measurements, whether the LR, applicable for that Day D, is violated.

(i) If for the Day D

$$TBP_{D-1} + \sum_i Q_{C,F,i}^D - \sum_j Q_{C,R,j}^D - Q_M^D > LR_{up}$$

or

$$TBP_{D-1} + \sum_i Q_{C,F,i}^D - \sum_j Q_{C,R,j}^D - Q_M^D < LR_{low}$$

the Parties carry out the final allocation of Natural Gas quantities in accordance with the provisions of paragraph 8.4

(ii) If for the Day D

$$LR_{low} \leq TBP_{D-1} + \sum_i Q_{C,F,i}^D - \sum_j Q_{C,R,j}^D - Q_M^D \leq LR_{up}$$

the Parties carry out the final allocation of Natural Gas quantities in accordance with the provisions of paragraph 8.2.

9.5 The Parties may operationally agree to:

(a) temporarily expand the limits of LR for a certain number of consecutive Gas Days. The OBA expansion can be requested either before the end of the Gas Day D, when it becomes clear that there will be such situation (so the necessary actions are taken in due time), or once the Gas Day D has ended and the exact quantities exceeding the OBA limits are already known. The requests and the approvals of such temporary OBA limits expansion shall be submitted to the other Party in written form by e-mail. Any additional information can be clarified in advance by phone. In the requesting e-mail there should be a proposed deadline within which the requesting party will make all efforts to restore the TBP back in the normal OBA limits stated in paragraph 9.2. Approvals should be received by the requesting party before UTC 09:00 of Gas Day D+1, in order to abide by the deadlines for allocation of the quantities. Both parties shall appoint their representatives and their contact information (email addresses, phone numbers and names if applicable), authorized to request and approve temporary OBA limits expansion for a specified time period. Both parties shall inform the other side in

due time if any changes occur in the list of authorized representatives and their contact information.

or

- (b) suspend the implementation of the OBA allocation procedure, and apply the pro-rata allocation procedure, as per paragraph 8.4, for any Gas Day D at the end of which the TBP is not within the limits of LR. Each Gas Day D for which the pro-rata allocation procedure applies, the OBA is updated by calculating the TBP, considering DBP that equals to zero (0).

Article 11 - Reports

- 11.1** The indicative allocation of Natural Gas quantities shall be carried out via an ALOCAT message according to Edig@s-XML format, for each Pair of Network Users, on a daily basis, until UTC 08:30 for the previous Day. The excel document-based data exchange method shall be used temporarily by the Parties as a back-up solution in case of failure of the above mentioned data exchange method.
- 11.2** The final allocation of Natural Gas quantities for each Gas Day of the Month M, and for each Pair of Network Users, based on validated measurements, shall be carried out until UTC 12:00 of the third calendar day of the Month immediately succeeding the Month M.
- 11.3** Daily and Monthly quantity allocation protocols shall be issued by ICGB and signed by both Parties. The Daily and Monthly allocation protocols shall be in accordance with the preliminarily approved forms as in Annex 4. The Natural Gas quantities, expressed in volume units, are registered in the allocation protocols for reference purposes only. The Monthly quantity allocation protocol shall be preceded by the respective Quality and Quantity measurement protocols of the gas quantity and quality according to Annex 7, where Natural Gas quantities are also expressed in volume units (0°C and 15°C), for reference purposes only.
- 11.4** Until the fourth calendar day of the month, ICGB shall provide, by e-mail, the monthly quantity and quality reports, in the format generated by the flow computers of the GMS Stara Zagora.
- 11.5** The data in the quantity allocation protocols shall be used by BTG and ICGB to prepare and sign the quantity allocation protocols per each NU pair active at the IP.
- 11.6** ICGB shall issue and forward to BTG daily the OBA protocol for day D, not later than UTC 9:00. The OBA Protocol shall be in accordance with the standard form of Annex 9 of the Interconnection Agreement. ICGB shall send daily to BTG an Account Situation Document (ACCSIT) notification containing the TBP, in accordance with Article 12, not later than UTC 9:00 on the Day D+1.
- 11.7** ICGB representative shall issue, sign and forward to BTG the monthly OBA protocol until 10:30 UTC and BTG representative shall sign and return it until 13:30 UTC of the third calendar day of the month M. The OBA Protocol shall be in accordance with the standard form of Annex 9 of the Interconnection Agreement.
- 11.8** Each Party shall have the right to request corrections of the monthly Quantity and Quality reports within a period of three (3) months starting from the time the alleged discrepancy occurred. In such cases correction measurement protocols shall be issued by the party responsible for the equipment, the other Party shall sign those protocols if there are no objections and the corrected data will be deemed as the valid quantity/quality data. The allocation for the Network Users will not be changed and the difference with the original

allocation protocol shall be added to the OBA account for the Gas Day for which the correction protocols are issued and signed.

Article 14 - Constraints and communication procedures in case of exceptional event

14.1 Whenever a limit for the gas quality specification according to Annex 5 is approached or exceeded, ICGB and/or BTG shall inform each other thereof and shall take appropriate measures to shut off such gas or organize the flow in a way accepted by the respective Downstream Operator. Depending on the position of the Downstream Operator, the gas will be interrupted or not, whilst the Upstream Operator shall immediately undertake corrective actions to bring the gas properties back on spec as soon as possible.

14.2 In case of an exceptional event in the ICGB or BTG systems, each Party shall inform the other Party within one hour of becoming aware of the exceptional event, on the following:

- the date and time when the exceptional event occurred and the estimated remedy duration;
- the estimated gas delivery or taking over regime;
- the necessary operations to restore the normal delivery - taking over regime;
- the change of gas pressure and quantity of the gas delivered and taken over.

The Parties shall report to the Dispatching Centers – that have round-the-clock contact each other at any time, their responsibilities regarding the operative command and the agreement of the current working regimes for the pipeline system that ensure gas delivery and taking over through the IP STARA ZAGORA, as well as any other operative problems of mutual interest. The communication shall be performed by means of telephone call for information, followed by a written confirmation;

Following the coordination of the current working regimes during an exceptional event, each Party shall inform in a prompt manner its affected network users, on the following:

- the date and time when the exceptional event occurred and the estimated remedy duration;
- the estimated gas delivery or taking over regime;
- the necessary operations to restore the normal delivery - taking over regime;
- the change of gas pressure and quantity of the gas delivered and taken over.
- if a constraint affects the quantities that were confirmed to the Network Users, before the constraint took effect, a new set of confirmed quantities for each pair of Network Users shall be established for the constraint period, and a new matching cycle shall commence. The net flow shall be in accordance with the sum of the new confirmed quantities. The Network Users shall be advised about the new confirmed quantities.
- any revision of the constraint shall initiate a new matching cycle, which will lead to revised confirmed quantities. Each Network User shall be informed about his changed confirmed quantities as soon as practicable.

Once the exceptional event ends, the relevant affected party shall inform the other party as soon as reasonably practicable and each party shall inform its respective affected network users accordingly.

Contact data of the Parties related to emergency activities are listed in Annex 6A and Annex 6B.

14.3 Interruption

The below provisions shall be applicable for all interruptible services.

Should the circumstances so require Parties are entitled to initiate interruption of interruptible service.

Transmission System Operators shall include reasons for interruptions in the general terms and conditions that govern interruptible transport contracts. Reasons for interruptions can include but are not limited to gas quality, pressure, temperature, flow patterns, use of firm contracts, maintenance, up- or downstream constraints, public service obligations and capacity management deriving from congestion management procedures.

The extent of eventual interruption shall not be greater, than the level required by the given circumstances and shall not impose undue limitation of Network Users' rights.

The Party that initiates the interruption prior to or during the Gas Day shall notify the other Party within the relevant Matching procedure as stipulated in 7.3. Interruption lead time shall be minimum 2 (two) hours. The Parties shall notify their respective affected network users as soon as possible, but with due regard to the reliability of the information.

The Party that initiates the interruption shall also inform the other Party of the reason for the interruption ex post.

In case of interruption the order in which interruption shall be performed shall be determined based on the contractual timestamp of the respective transport contracts on an interruptible basis. Transport contract coming into force earlier shall prevail over transport contract coming into force later (LIFO). Only if two or more transport contracts on an interruptible basis are ranked at the same position within the interruption order and the relevant Party does not interrupt all of them, a pro rata reduction of these specific nominations shall apply.