Schedule 3 - NETWORK ENTRY PROVISIONS

1. Connected Delivery Facility and Individual System Entry Point(s)

1.1 The Connected Delivery Facility is the Delivery Facility as defined in this Agreement.

1.2 The Individual System Entry Point(s) comprised in the System Entry Point are shown in the drawing attached as Attachment A to Schedule 1

2. Gas Entry Conditions

2.1 These Gas Entry Conditions shall apply at the System Entry Point.

2.2 Gas tendered for delivery by System Users to the System at the System Entry Point shall comply with the System's statutory safety requirements, including any Legal Requirement regarding the composition of gas to be conveyed in the System (including without limitation, schedule 3 of the Gas Safety (Management) Regulations 1996).

2.3 Gas tendered for delivery by System Users to the System at the System Entry Point shall not contain any solid, liquid or gaseous material which would interfere with the integrity or operation of the System or any pipeline connected to such System or any appliance which a consumer might reasonably be expected to have connected to the System. In addition, all gas delivered to the System at the System Entry Point shall be in accordance with the following values:

(a)	Hydrogen Sulphide	not more than 5 mg/SCM.
(b)	Total Sulphur	not more than 50 mg/SCM.
(c)	Hydrogen Content	not more than 0.1 mol%.
(d)	Oxygen Content	not more than 0.001 mol%.
(e)	Hydrocarbon Dewpoint	not more than minus two degrees Celsius (-2°C) at any pressure up to seventy bar gauge (70 barg).
(f)	Water Content	not such as would cause a water dewpoint more than minus ten degrees Celsius (-10°C) at eighty five bar gauge (85 barg) or the actual delivery pressure.
(g)	Wobbe Number	shall be between 47.2 MJ/SCM, and 51.41 MJ/SCM.
(h)	Incomplete Combustion Factor (ICF)	not more than 0.48.
(i)	Soot Index (SI)	not more than 0.60.
(j)	Odour	it shall have no odour that may cause Transco to fail to meet its obligation under Part 1 of Schedule 3 of the Gas Safety (Management) Regulations 1996.
(k)	Carbon Dioxide	not more than 2.0 mol%.
(l)	Nitrogen	not more than 7.0 mol%.
(m)	Total Inerts	not more than 7.0 mol%.
(n)	Gross Calorific Value	shall be within the range 36.9 to 42.3 MJ/SCM. (real gross dry);
(o)	Delivery Temperature	shall be between one and thirty eight degrees Celsius (1°C and 38°C).

(p) Pressure — shall be that required to deliver gas into the System taking account of the back pressure as the same shall vary from time to time. The delivery pressure shall not exceed seventy bar gauge (70 barg).

Incomplete combustion factor (ICF) and Soot Index (SI) have meanings as defined in Part 1 of Schedule 3 of the Gas Safety (Management) Regulations 1996.

2.4 Pursuant to the provisions of the Gas Safety (Management) Regulations 1996 (the "Regulations"), the National Emergency Co-ordinator may, where it is necessary to prevent a supply emergency, authorise (for a specified period) gas not conforming with the requirements specified in Part I of Schedule 3 to the Regulations to be conveyed in the System if the gas conforms with the requirements specified in Part II of Schedule 3 to the Regulations. In the event that the National Emergency Co-ordinator does so authorise gas not conforming with the requirements specified in Part I of Schedule 3 to the Regulations to be conveyed in the System from the System Entry Point, the requirements in relation to Wobbe Number and incomplete Combustion Factor (ICF) set out in paragraph 2.3 above shall be amended as set out below for the period specified by the National Emergency Co-ordinator:-

(a) Wobbe Number shall be between 46.5 MJ/SCM, and 52.85 MJ/SCM.

(b) Incomplete Combustion Factor (ICF) shall be not more than 1.49.

2.5 In order to meet the calibration ranges for typical analysis equipment, unless agreed otherwise by the Parties, the concentration ranges of the following components in the gas delivered shall be as follows:

Component	**% mole low**	**% mole high**
Methane	78.00	98.00
Ethane	0.00	12.00
Propane	0.00	7.00
i-Butane	0.00	1.00
n-Butane	0.00	1.00
neo-Pentane	0.00	0.35
i-Pentane	0.00	0.35
n-Pentane	0.00	0.35
C6+ fraction	0.00	0.35

The Parties acknowledge that Transco may require the approval of Ofgem prior to being able to agree to any change to the concentration ranges referred to above, and Transco will act reasonably in seeking approval from Ofgem in an expedient manner, but Transco confirms that it will not otherwise unreasonably withhold or delay its agreement to any such change. Where Transco does so require the approval of Ofgem, the Parties acknowledge that Transco cannot agree to any change to the concentration ranges referred to above until such time as Transco has received approval from Ofgem.

3. Measurement Provisions

3.1 The Measurement Provisions shall be as set out in Schedule 4.

4. Points of Delivery

4.1 The points of delivery at the System Entry Point shall be those illustrated in the diagram contained in Attachment A to Schedule 1.

5. Additional Requirements

5.1 The DFO shall maintain, repair and operate the Delivery Facility to the standard of a Reasonable and Prudent Operator, and Transco shall maintain, repair and operate the Entry Facility to the standard of a Reasonable and Prudent Operator. In the event that either Party believes that the other Party is not complying with its obligations set out above, then (without prejudice to any rights the first Party may have under any Delivery Arrangement or Transportation Arrangement) it shall notify the other Party accordingly. Following the giving of such notice, the Parties shall meet as soon as reasonably practicable to discuss the matter in good faith.

Appendix 1

For the purposes of Uniform Network Code Modification 0581S – Amending the Oxygen content limit specified in the Network Entry Agreement at Grain LNG, implemented on 12th August, 2016, the Parties agree that, with effect from the date of this Second Amending Agreement;

1. Clause 2.3 d of Schedule 3 to the Agreement shall be amended to read as:

"Oxygen Content - not more than 0.02 mol %"