

IGTAD SECTION B

IGT SYSTEMS - CONNECTION AND OPERATIONAL ARRANGEMENTS

1. GENERAL

1.1 Introduction

1.1.1 This Section B sets out:

- (a) requirements (including requirements as to connection and operation in relation to an IGT System at a CSEP) applying to the directly-connected Independent Gas Transporter only; and
- (b) certain such requirements applying to both the directly-connected Independent Gas Transporter and any indirectly-connected Independent Gas Transporter.

1.1.2 For the purposes of this Section B:

- (a) **CSEP Connection Arrangements** is defined in paragraph 1.2.1
- (b) **CSEP Connection Data** is defined in paragraph 2.2.2;
- (c) a **CSEP Registration** is the record of data in respect of a CSEP maintained by the DN Operator under paragraph [1.3];
- (d) an **IGT System Registration** is the registration of an IGT System provided for in paragraph [2.4];

(e) **AQ Calculation Table** means the table in Annex B-1.

1.1.3 For the purposes of this Document, in relation to a CSEP:

- (a) **Aggregate IGT System** means the directly-connected IGT System and all (if any) indirectly-connected IGT Systems, taken together;
- (b) **AIGTS AQ**, in relation to a Gas Year, means the aggregate quantity of gas which is expected to be offtaken from all IGTS Supply Meter Points on the Aggregate IGT System in that Gas Year, determined in accordance with paragraph 1.5;

~~(c) the AIGTS AQ shall be determined by reference to the [AQ Tables];~~

- (d) **Connection or Load Change** means any of the things specified in paragraph 2.2.2 (a), (b) and (c);
- (e) **Connection Facilities** means any equipment or facilities installed (pursuant to the CSEP Connection Arrangements or otherwise) by the DN Operator or the directly-connected Independent Gas Transporter at the site of a CSEP for the purposes of connecting or enabling the connection of the DNO System and the IGT System at that CSEP;
- (f) **Maximum CSEP Offtake Rate** in relation to a Gas Year is the maximum instantaneous rate at which (on the basis of 1-in-20 peak day demand) gas is

[expected to be offtaken at the CSEP at any time in that Gas Year, determined on the basis of the same assumptions as to connected load as the AIGTS AQ.](#)⁴

1.1.4 In this Section B a reference to a 'Party' in the context of a CSEP is to the DN Operator and a directly-connected Independent Gas Transporter.

1.1.5 [The requirements in Section [E] in respect of DM IGTS Supply Points apply separately from and in addition to this Section B.]

1.2 CSEP Connection Arrangements

1.2.1 Each DN Operator individually has established processes and other arrangements (such processes and arrangements, as from time to time in force, the **CSEP Connection Arrangements**) by which an Independent Gas Transporter may apply for and (subject to the conditions and requirements stipulated by the DN Operator) obtain approval for the connection of a directly-connected IGT System to a DNO System at an unmetered Connected System Exit Point, or a subsequent increase in expected load at such a CSEP.

1.2.2 The CSEP Connection Arrangements are set out in separate documentation established by each DN Operator, and do not form part of the Code.

1.2.3 The CSEP Connection Arrangements provide (among other things) for:

(a) the ~~initial~~-submission by the directly-connected Independent Gas Transporter of [initial and updated](#) CSEP Connection Data [\(in accordance with paragraph 2.2.1\)](#);

[\(b\) the basis on which the annual quantity in respect of premises not within the AQ Calculation Table will initially be determined for the purposes of determining the AIGTS AQ;](#)

~~(b)(c)~~ the identification of the point of offtake at each ISEP comprised in a CSEP for the purposes of [TPD Section J3.2.1]; and

~~(e)(d)~~ arrangements for the commissioning of the directly-connected IGT System and any indirectly-connected IGT System.

[1.2.4 The CSEP Connection Arrangements may provide for:

(a) the determination of the maximum number of Days in a Planned Maintenance Period or in any three consecutive Planned Maintenance Periods in respect of a CSEP for the purposes of TPD Section L4.3.2(a);

(b) establishing a provision as to the pressure of gas to be made available for offtake at a CSEP, or the basis on which (in different circumstances) such pressure will be determined.

1.2.5 Any estimate required to be made by an Independent Gas Transporter under this Section B shall be made to the standards required in and otherwise in accordance with the CSEP

⁴~~Definitions are included in ICTAD A.~~

Uniform Network Code – Independent Gas Transporter Arrangements Document Section B
Text Mods 0440

Connection Arrangements (and in the absence of any such standards, in good faith and to the standard of a Reasonable and Prudent Operator² and where applicable after enquiry of any downstream Independent Gas Transporter³).

1.3 CSEP Registration

1.3.1 The DN Operator shall maintain, and update to reflect information provided by the directly-connected Independent Gas Transporter, a record in respect of each CSEP setting out:

- (a) the identity and geographical location of the CSEP;
- (b) a list of the Connection Facilities installed by the Independent Gas Transporter and by the DN Operator;
- (c) the point of offtake (for each Independent System Exit Point) identified in accordance with the CSEP Connection Arrangements;
- (d) ~~the identity of each downstream IGT System~~;
- (e) the number (if any) of Days of allowed maintenance in a Planned Maintenance Period or in any three consecutive Planned Maintenance Periods determined pursuant to the CSEP Connection Arrangements (as provided in paragraph 1.2.4(a));
- (f) any provision as to pressure established pursuant to the CSEP Connection Arrangements (as provided in paragraph 1.2.4(b)); and
- (f) the prevailing CSEP Connection Data.

1.3.2 The DN Operator shall upon request provide to the directly-connected Independent Gas Transporter [and any indirectly-connected Independent Gas Transporter] the details contained in the CSEP Registration in respect of a CSEP.

1.3.3 The DN Operator is entitled to make available (pursuant to TPD Section J6.1.1) to any User the details contained in the CSEP Registration in respect of a CSEP.

1.4 Responsibility of directly-connected Independent Gas Transporter

1.4.1 Except where any provision of this Section B is expressly binding on indirectly-connected Independent Gas Transporters, the directly-connected Independent Gas Transporter is responsible for ensuring the requirements of this Section B are complied with in relation to the Aggregate IGT System as a whole.

1.4.2 The directly-connected Independent Gas Transporter undertakes that it will make (and in relation to indirectly-connected IGT Systems in existence at the Nexus Implementation Date, warrants that it has made) arrangements with each indirectly-connected Independent Gas Transporter which enable the directly-connected Independent Gas Transporter to comply with this Section B.

1.5 AIGTS AQ

² Defined in GTC.

³ Definition included in IGTAD A.

The AIGTS AQ for a Gas Year shall be determined by aggregating, for the maximum number of premises expected to be connected to the Aggregate IGT System at the end of the Gas Year (as provided in paragraph 2.2.2(a)), quantities determined as follows:

- (a) for premises which are not (at the time at which the AIGTS AQ is to be determined) connected to the Aggregate IGT System:
 - (i) in respect of premises of a type within the AQ Calculation Table, the 'AQ' determined in accordance with the AQ Calculation Table on the basis of the type of premises and the relevant LDZ;
 - (ii) in respect of other premises, the annual quantity determined pursuant to the CSEP Connection Arrangements;
- (b) for premises which (at such time) are connected to the Aggregate IGT System, the prevailing Annual Quantity of the relevant IGTS Supply Point determined in accordance with Section D.

1.65 Miscellaneous

- 1.65.1 The provisions of the Code are without prejudice to any lease or other instrument made between the Parties in respect of the land where any Connection Facilities of the DN Operator are situated.
- 1.65.2 Without prejudice to anything agreed pursuant to the CSEP Connection Arrangements, nothing in this Document imposes any obligations on the DN Operator, or takes effect as a warranty by the DN Operator, in favour of any Independent Gas Transporter in relation to any Connection Facilities of the DN Operator; and [(in accordance with [Section H6])] the DN Operator will not be liable to any Independent Gas Transporter in respect of any failure or malfunction of any such Connection facilities.

2. CSEP CONNECTION

2.1 Right to be connected and permit offtake

- 2.1.1 Provided it complies with the requirements in this Section B, a directly-connected Independent Gas Transporter shall be entitled to have the Aggregate IGT System connected to the DNO System at each Individual System Exit Point comprised in the relevant CSEP.
- 2.1.2 A directly-connected Independent Gas Transporter shall not offtake gas or permit gas to be offtaken from the DNO System at any Individual Exit Point comprised within the CSEP:
 - (a) before the date (determined in accordance with the CSEP Connection Arrangements) on which the connection of the IGT System to the DNO System has been completed, as demonstrated by successful commissioning of the pipeline(s) and other facilities forming part of the DNO System, so as to permit the safe transportation of gas on the DNO System to the furthest downstream isolation valve before the IGT System; or
 - (b) except for the purposes of commissioning (as provided in, and in accordance with, the CSEP Connection Arrangements) the directly-connected IGT System and any downstream IGT System, before the date (as determined in accordance with those arrangements) on which such commissioning is treated as completed.

2.2 CSEP connection requirements

2.2.1 It is a requirement for the purposes of the Code that, before any of the following:

- (a) the initial connection of the directly-connected IGT System to the DNO System at a CSEP;
- (b) the connection of any indirectly-connected IGT System to any upstream IGT System⁴; or
- (c) the expansion of any part of the Aggregate IGT System by the connection of any premises (or a change in load at premises) such that the number of premises or AIGTS AQ exceeds what was specified in the prevailing CSEP Connection Data

the directly-connected Independent Gas Transporter shall estimate [or \(as the case may be\) determine](#) and submit to the DN Operator the CSEP Connection Data or (as the case may be) updated CSEP Connection Data, and obtain from the DN Operator approval for the connection or (as the case may be) change in load, in accordance with the CSEP Connection Arrangements.

2.2.2 For the purposes of the Code, **CSEP Connection Data** in relation to a Connection or Load Change means, for each of the 10 Gas Years starting with the Gas Year in which a Connection or Load Change occurs or (as the case may be) in which an update is notified under paragraph 2.3:

- (a) the maximum number of premises expected to be connected to the Aggregate IGT System at the end of the Gas Year;
- (b) the AIGTS AQ;
- (c) the amount of the AIGTS AQ referable to:
 - (i) Smaller IGTS Supply Points;
 - (ii) Larger IGTS Supply Points;
- (d) [the Maximum CSEP \[where applicable, the Offtake Rate information set out in paragraph 4\]](#);

and a reference to the **prevailing** CSEP Connection Data is to the data most recently submitted and for which approval (as referred to in paragraph 2.2.1) has been obtained.

2.2.3 The directly-connected Independent Gas Transporter shall not make or permit any downstream Independent Gas Transporter to make any connection of any IGT System to another System, or of premises to any IGT System, or take or permit to be taken any other action, which would result in a failure to comply with the requirement in paragraph 2.2.1.

2.3 Updated CSEP Connection Data

⁴ To be defined in IGTAD A

 Uniform Network Code – Independent Gas Transporter Arrangements Document Section B
 Text Mods 0440

- 2.3.1 Without prejudice to paragraph 2.2.1, the directly-connected Independent Gas Transporter shall:
- (a) keep the prevailing CSEP Connection Data under review, and in any event review such data upon the request of (and within the timetable reasonably required by) the DN Operator; and
 - (b) if there is any change (whether in respect of an increase or decrease in the expected number of premises connected or load on the Aggregate IGT System) in its estimate of the matters comprised in the CSEP Connection Data as compared with the estimates in the prevailing CSEP Connection Data, notify the DN Operator and submit updated CSEP Connection Data accordingly.

2.4 IGTS Registration

- 2.4.1 Each (directly-connected or in-directly-connected) Independent Gas Transporter shall, before any IGT System is connected to a DNO System or (as the case may be) an upstream IGT System, register the IGT System with the DN Operator (for the purposes, among others, of the application of Section D) by submitting the following data to the DN Operator:
- (a) the identity of the Independent Gas Transporter;
 - (b) an identifier (as specified by the DN Operator) for the IGT System;
 - (c) the identity of the relevant CSEP;
 - (d) in the case of an indirectly-connected IGT System, the identity of the upstream IGT System to which it is immediately connected.
- 2.4.2 The directly-connected Independent Gas Transporter shall not permit the connection of any downstream IGT System unless the DN Operator confirms that the requirement in paragraph 2.4.1 has been complied with.
- 2.4.3 The DN Operator will not be required to accept the registration of an IGT System under paragraph 2.4.1 unless the requirements of paragraph 2.2.1 have been complied with in respect of the connection of that IGT System.

3. OPERATIONAL REQUIREMENTS

3.1 Connection Facilities

- 3.1.1 Where (pursuant to the CSEP Connection Arrangements) any Connection Facilities are installed by either Party at a CSEP:
- (a) that Party shall not modify, remove or replace such Connection Facilities, if such Connection Facilities would as a result cease to be compatible with the other Party's Connection Facilities, or if gas flows at the CSEP would be materially affected, except:
 - (i) where required (in relation to a subsequent Connection or Load Change) under, and in accordance with, the CSEP Connection Arrangements, or

Uniform Network Code – Independent Gas Transporter Arrangements Document Section B
Text Mods 0440

- (ii) with the approval of the other Party, which is not to be unreasonably withheld or delayed;
 - (b) that Party shall in any event give to the other Party as much notice as is practicable of any proposal to modify, remove or replace such Connection Facilities;
 - (c) the CSEP Registration shall be updated to reflect any such modification, removal or replacement.
- 3.1.2 Each Party shall be entitled, upon reasonable notice to the other Party, and subject to compliance with such reasonable procedural requirements as the other Party may specify, to inspect (and to have access accordingly to) the other Party's Connection Facilities for the purposes of verifying that those Connection Facilities remain compatible with the first Party's Connection Facilities and System.

3.2 Maintenance

3.2.1 The Parties shall exchange information as to:

- (a) in the case of the DN Operator, its proposals for carrying out maintenance on the DNO System;
- (b) in the case of the directly-connected Independent Gas Transporter, any proposal by it or any indirectly-connected Independent Gas Transporter for carrying out maintenance on any part of the Aggregate IGT System

where such proposed maintenance is materially likely to affect gas flows at the CSEP, or the operation of the Aggregate IGT System or (as the case may be) the DNO System.

~~3.2.2 For the purposes of TPD Section L4.3.2(a), the number of Days in a Planned Maintenance Period or in any three consecutive Planned Maintenance Periods Planned will be the number determined under the CSEP Connection Arrangements (and if not such number is so determined will be zero).~~

3.3 System security and emergencies

3.3.1 Each directly or indirectly-connected Independent Gas Transporter and the DN Operator agree to cooperate with each other and to comply with all requests made by the other (save those which are manifestly unreasonable) for the purposes of:

- (a) averting or reducing danger to life or property, or
- (b) securing the safety of their respective Systems or the same conveyance of gas by such System or reducing risk thereto.

3.3.2 Each directly or indirectly-connected Independent Gas Transporter and the DN Operator shall exercise their respective powers (to disconnect premises or parts of their respective Systems or otherwise suspend or restrict the flow of gas in or from any part of their respective Systems) under the Act, their gas transporter licences and (respectively) the Code and the IGT Code, with a view to ensuring the safety and security of the Total System and IGT Systems as a whole.

Uniform Network Code – Independent Gas Transporter Arrangements Document Section B
Text Mods 0440

3.3.3 Where the DN Operator exercises any right under the Code to suspend or discontinue the offtake by Users of gas at a CSEP, or to limit the rate of such offtake, the DN Operator will advise the directly-connected Independent Gas Transporter as soon as possible.

3.4 Network validation

3.4.1 The directly-connected Independent Gas Transporter shall, on request from the DN Operator, provide to the DN Operator such information concerning the Aggregate IGT System as the DN Operator may reasonably require for the purposes of carrying out network validation in respect of the DNO System.

3.4.2 Without limitation, the information referred to in paragraph 3.4.1 includes current and projected information as to connected sites, connected load, pressures and gas flows.

4. CERTAIN PROVISIONS APPLICABLE FOR THE PURPOSES OF THE TRANSPORTATION PRINCIPAL DOCUMENT

4.13.5 Pressures

For the purposes of the Applicable Offtake Requirements in relation to a CSEP, any provision [\(as provided in paragraph 1.2.4\(b\)\)](#) as to pressure or the basis for determining pressure established in respect of a CSEP pursuant to the CSEP Connection Arrangements is a provision within TPD Section J2.1.1(b)(iii).

4.2 Maintenance

[For the purposes of TPD Section L4.3.2\(a\), the number of Days in a Planned Maintenance Period or in any three consecutive Planned Maintenance Periods Planned will be the number determined under the CSEP Connection Arrangements \(and if not such number is so determined will be zero\).](#)

4.3 Maximum CSEP Offtake Rate

[For the purposes of TPD Sections J3.9.2 and J3.9.3\(a\), the maximum aggregate rate permitted in any Gas Year is the Maximum CSEP Offtake Rate \(in accordance with the prevailing CSEP Connection Data\).](#)

4. LDZ CAPACITY AND OFFTAKE RATES

[To follow]

Annex B-1

AQ Calculation Table

ESTIMATED AVERAGE ANNUAL GAS CONSUMPTION FOR NEW BUILD DWELLINGS IN THE UK							
AQ Values Effective from [Nexus Implementation Date]							
Band	House Type	South SW, NT, WS, SO (92%)		Average WN, SE, NW, EA, EM, WM, NE (0%)		North NO, SC (108%)	
		AQ (kWh)	TPA	AQ (kWh)	TPA	AQ (kWh)	TPA
A	1 Bed	8,815	301	9,585	327	10,127	346
B	2BF, 2BT	10,639	363	11,270	385	11,659	398
C	2BS, 2BD, 3BT,	13,120	448	13,530	462	14,255	486
D	3BS, 2BB	14,348	490	14,611	499	15,871	542
E	3BD, 3BB	16,180	552	17,303	590	19,758	674
F	4BD, 4BT, 4BS,	19,823	676	21,195	723	22,690	774
G	5BD, 5BS, 6BD	28,077	958	30,035	1,025	31,176	1,064