

## UNC 0874: Amendments to UNC to align with Gas Demand Forecasting Methodology

### Appendix 1

Existing Code	Proposed Change
<p align="center"><b>UNIFORM NETWORK CODE – OFFTAKE ARRANGEMENTS DOCUMENT</b></p> <p align="center"><b>SECTION N</b></p> <p><b>1.2 Subsidiary Documents</b></p> <p>1.2.1 In this Document, "<b>Offtake Subsidiary Document</b>" means each of the following documents:</p> <ul style="list-style-type: none"> <li>(a) the SCO Interface Procedures (referred to in Section C3);</li> <li>(b) the Offtake Communications Document (referred to in Section M);</li> <li>(c) the Validation Procedures (referred to in Section D3);</li> <li>(d) the Emergency Procedures E2 (referred to in Section C2.3);</li> <li>(e) the document <b>TD76</b> (referred to in Section H1.3.1);</li> </ul>	<p align="center"><b>UNIFORM NETWORK CODE – OFFTAKE ARRANGEMENTS DOCUMENT</b></p> <p align="center"><b>SECTION N</b></p> <p><b>1.2 Subsidiary Documents</b></p> <p>1.2.1 In this Document, "<b>Offtake Subsidiary Document</b>" means each of the following documents:</p> <ul style="list-style-type: none"> <li>(a) the SCO Interface Procedures (referred to in Section C3);</li> <li>(b) the Offtake Communications Document (referred to in Section M);</li> <li>(c) the Validation Procedures (referred to in Section D3);</li> <li>(d) the Emergency Procedures E2 (referred to in Section C2.3);</li> <li>(e) the document <b>GDFM</b> (referred to in Section H1.3.1);</li> </ul>

<p style="text-align: center;"><b>UNIFORM NETWORK CODE – GENERAL TERMS</b></p> <p style="text-align: center;"><b>SECTION C – INTERPRETATION</b></p> <p>2.6.6 Where pursuant to the Code estimates of peak day demand or annual demand are to be made, such estimates will be made under the statistical methodology for such estimation described in the <b>Base Plan Assumptions for the Gas Year 1995/96 (or any revised such methodology established by the Transporters after consultation with Users and described in Base Plan Assumptions or National Gas Transmission's Ten Year Statement</b> for any subsequent Gas Year).</p> <p>2.6.7 A reference in the Code in relation to any Gas Year to “Total System 1-in-20 peak day demand” is the 1-in-20 peak day demand for the Total System established for the Gas Year pursuant to TPD Section O and set out in National Gas Transmission's <b>Ten Year Statement</b>.</p>	<p style="text-align: center;"><b>UNIFORM NETWORK CODE – GENERAL TERMS</b></p> <p style="text-align: center;"><b>SECTION C – INTERPRETATION</b></p> <p>2.6.6 Where pursuant to the Code estimates of peak day demand or annual demand are to be made, such estimates will be made under the statistical methodology for such estimation described in the <b>Gas Demand Forecasting Methodology and the assumptions developed as part of TBD section O and published as part of National Gas Transmission's Long Term Development Statement</b> for any subsequent Gas Year).</p> <p>2.6.7 A reference in the Code in relation to any Gas Year to “Total System 1-in-20 peak day demand” is the 1-in-20 peak day demand for the Total System established for the Gas Year pursuant to TPD Section O and set out in National Gas Transmission's <b>Long Term Development Statement</b>.</p>
<p style="text-align: center;"><b>UNIFORM NETWORK CODE – OFFTAKE ARRANGEMENTS DOCUMENT</b></p> <p style="text-align: center;"><b>SECTION H</b></p> <p style="text-align: center;"><b>NTS LONG TERM DEMAND FORECASTING</b></p> <p><b>1.3 Peak day demand</b></p> <p>1.3.1 Forecasts of peak day load shall be calculated in a manner consistent with the principles laid down by the <b>British Gas document TD76, Report of the Steering Group on Temperature/Demand Relationships (or any modification of such document approved by the Offtake Committee under Section N1.2)</b> (being the methodology referred to in GT Section C2.6.6).</p>	<p style="text-align: center;"><b>UNIFORM NETWORK CODE – OFFTAKE ARRANGEMENTS DOCUMENT</b></p> <p style="text-align: center;"><b>SECTION H</b></p> <p style="text-align: center;"><b>NTS LONG TERM DEMAND FORECASTING</b></p> <p><b>1.3 Peak day demand</b></p> <p>1.3.1 Forecasts of peak day load shall be calculated in a manner consistent with the principles laid down by the <b>Gas Demand Forecast Methodology (GDFM)</b> document (being the methodology referred to in GT Section C2.6.6).</p>

**UNIFORM NETWORK CODE – OFFTAKE ARRANGEMENTS DOCUMENT**

**SECTION H**

**Proposed Changes**

**Part 1 - Forecast information to be provided by DNO**

<b>Forecast Item</b>	<b>Data Elements</b>	<b>Basis of Weather Correction to be Applied</b>
Peak Day Demand	NDM Firm consumption DM Firm consumption Total Firm consumption <b>Total Interruptible consumption</b> Total LDZ demand	1 in 20
Annual Demand	NDM Firm 0 to 73.2MWh p.a. NDM Firm 73.2 to 732MWh p.a. NDM Firm >732MWh p.a. Total NDM Firm consumption Total DM Firm consumption <b>Total Interruptible consumption</b> Total LDZ demand	Average (Seasonal Normal Composite Weather Variable)

**Proposed Changes**

**Part 2 - Forecast information to be provided by National Gas Transmission**

<b>Forecast Item</b>	<b>Data Elements</b>	<b>Basis of Weather Correction to be Applied</b>
Peak Day Demand	NDM Firm 0 to 73.2 MWh p.a. NDM Firm 73.2 to 732 MWh p.a. NDM Firm 732MWh to 5860 MWh p.a. NDM Firm >5860 MWh p.a. Total NDM Firm consumption DM Firm consumption Total Firm demand <b>Interruptible consumption</b> <b>Total Interruptible demand</b> Total LDZ demand	1 in 20

Annual Demand	<p>NDM Firm 0 to 73.2 MWh p.a.          NDM Firm 73.2 to 732 MWh p.a.          NDM Firm 732MWh to 5860 MWh p.a.          NDM Firm &gt;5860 MWh p.a.          Total NDM Firm consumption          DM Firm &lt;1465 GWh p.a.          DM Firm &gt;1465 GWh p.a.          Total DM Firm consumption          Total Firm demand  <b>Interruptible &lt;1465 GWh p.a.</b>  <b>Interruptible &gt;1465 GWh p.a.</b>  <b>Total Interruptible consumption</b>  <b>Total Interruptible demand</b>          Total LDZ demand</p>	Average (Seasonal Normal Composite Weather Variable)
Monthly Demand Profile (Current calendar year plus two subsequent years)	<p>NDM Firm 0 to 73.2 MWh p.a.          NDM Firm 73.2 to 732 MWh p.a.          NDM Firm 732MWh to 5860 MWh p.a.          Firm 5860MWh to 1465 GWh p.a.  <b>Interruptible &lt;1465 GWh p.a.</b>          Very Large User (&gt;1465 GWh p.a.)          Total LDZ consumption          Total LDZ demand</p>	Average (Seasonal Normal Composite Weather Variable)
Daily Demand Profile	<p>NDM Firm consumption DM Firm consumption Total Firm demand  <b>Total Interruptible demand</b> LDZ Demand</p>	<p>Average (Seasonal Normal Composite Weather Variable) 1 in 20 cold  1 in 20 warm</p>
Load Duration Curves	<p>NDM Firm consumption          Total Firm demand   <b>Total Interruptible demand</b>          LDZ Demand</p>	<p>Average (Seasonal Normal Composite Weather Variable) 1 in 50 severe</p>

Forecast Item	Data Elements	Basis of Weather Correction to be Applied
Storage Simulation Model Input Data	<ul style="list-style-type: none"> <li>Historical Composite Weather Variable data in gas year format <b>from 1928/29 for the past 50 years</b> to the immediately preceding year; and</li> <li>Weather demand model covering the period beginning 1st October of the gas supply year immediately preceding the current year</li> </ul>	1 in 20

**Proposed Changes**

**Part 3 - Forecast Flow Information to be provided by DNO**

NTS/LDZ Offtake	Gas	Assumed calorific Value	Level of demand for gas	Data elements required per demand level
			(ref. Note 1)	
			1 in 20 peak day	Forecast rate of volume flow (MCM/day)
			Day 13 of 1 in 50 load	
			Day 46 of average load	peak rate (MCM/hour)
			Day 150 of average load	Offtake Flexibility Quantity (MCM/day)
			Day 300 of average load duration	

Note 1 – 1 in 20 peak day demand and Day 13 assume all interruptible load is not supplied. Day 46, Day 150 and Day 300 assume all interruptible is supplied.

Existing Code	Proposed Change
<p align="center"><b>UNIFORM NETWORK CODE – TRANSPORTATION PRINCIPAL DOCUMENT SECTION O – SYSTEM PLANNING</b></p> <p><b>1.1 Introduction</b></p> <p>1.1.1 Each year:</p> <p>(a) National Gas Transmission will publish assumptions and information in respect of supply and demand for gas, and in respect of the Total System and its use, in accordance with the requirements of National Gas Transmission's Transporter's Licence; and</p> <p>1.1.2 The Transporter needs Users to provide (and cooperate in the provision of) information to the Transporter for the purposes of enabling the Transporter:</p>	<p align="center"><b>UNIFORM NETWORK CODE – TRANSPORTATION PRINCIPAL DOCUMENT SECTION O – SYSTEM PLANNING</b></p> <p><b>1.1 Introduction</b></p> <p>1.1.1 Each year:</p> <p>(a) National Gas Transmission will publish assumptions (or make reference to assumptions produced by others on their behalf) and information in respect of supply and demand for gas, and in respect of the Total System and its use, in accordance with the requirements of National Gas Transmission's Transporter's Licence; and</p> <p>1.1.2 The Transporter needs Users to provide (and cooperate in the provision of) information to the Transporter for the purposes of enabling the Transporter (or nominated 3rd party):</p>

**1.2 Transporting Britain's Energy and Ten Year Statement**

1.2.1 Each year National Gas Transmission:  
(a) may undertake the Transporting Britain's Energy consultation process,  
(b) shall provide a **Ten Year Statement**, in accordance with paragraphs 3 and 4.

1.2.3 A "**Ten Year Statement**" is a document containing:  
(a) in the case of National Gas Transmission, the statement (or revised statement) required to be prepared pursuant to Special Condition **7A** of National Gas Transmission's Transporter's Licence and any direction of the Authority pursuant thereto;

1.2.4 Where the context admits, any reference in the Code to a **Ten Year Statement** is a reference to the most recently published such statement at any time, and a reference to a **Ten Year Statement** applicable to a particular Gas Year is to the statement for which (in accordance with paragraph 1.4) such year is year 0.

**1.3 Status of planning documents**

No Transporter will be liable pursuant to the Code to any User in relation to any estimate, forecast or other information contained in or omitted from the Transporting Britain's Energy consultation process or **Ten Year Statement**, and nothing contained therein will bind a Transporter to undertake any reinforcement of any relevant System(s).

3.3.3 Subject to paragraph 3.3.2 and to the Transporter's duties under the Transporter's Licence and the Act, and except where any such person consents thereto, the

**1.2 Transporting Britain's Energy and Long Term Development Statement**

1.2.1 Each year National Gas Transmission:  
(a) may undertake the Transporting Britain's Energy consultation process,  
(b) shall provide a **Long Term Development Statement**, in accordance with paragraphs 3 and 4.

1.2.3 A "**Long Term Development Statement**" is a document containing:  
(a) in the case of National Gas Transmission, the statement (or revised statement) required to be prepared pursuant to Special Condition **9.10 (Long Term Network Planning)** of National Gas Transmission's Transporter's Licence and any direction of the Authority pursuant thereto;

1.2.4 Where the context admits, any reference in the Code to a **Long Term Development Statement** is a reference to the most recently published such statement at any time, and a reference to a **Long Term Development Statement** applicable to a particular Gas Year is to the statement for which (in accordance with paragraph 1.4) such year is year 0.

**1.3 Status of planning documents**

No Transporter will be liable pursuant to the Code to any User in relation to any estimate, forecast or other information contained in or omitted from the Transporting Britain's Energy consultation process or **Long Term Development Statement**, and nothing contained therein will bind a Transporter to undertake any reinforcement of any relevant System(s).

3.3.3 Subject to paragraph 3.3.2 and to the Transporter's duties under the Transporter's Licence and the Act, and except where any such person consents thereto, the

Transporter agrees that the **Ten Year** Statement, and in the case of National Gas Transmission only the Transporting Britain’s Energy consultation process, will not identify by name any particular Users nor (insofar as any User shall have provided information to the Transporter relating to such person) any supplier, consumer or person producing or selling gas before its delivery to the Total System.

**4 TEN YEAR STATEMENT AND GS(M)R SAFETY CASE STORAGE VOLUME**

**4.1 Publication and content of Ten Year Statement**

4.1.1 On the basis of the information provided:

- (a) to National Gas Transmission by Users, other responses to the Transporting Britain’s Energy consultation process and other information available to it, National Gas Transmission will;
- (b) to the Transporter by Users and other information available to it, the Transporter will

prepare by such date as may be required pursuant to its Transporter’s Licence in year 0, and publish a **Ten Year** Statement.

4.1.2 The **Ten Year** Statement will typically include:

- (a) details for year - 1 of actual peak day demand:
    - (i) for the Total System; and
    - (ii) for System Exit Points (other than Unmetered Connected System Exit Points), **in accordance with paragraph 4.1.3**
- .....

Transporter agrees that the **Long Term Development** Statement, and in the case of National Gas Transmission only the Transporting Britain’s Energy consultation process, will not identify by name any particular Users nor (insofar as any User shall have provided information to the Transporter relating to such person) any supplier, consumer or person producing or selling gas before its delivery to the Total System.

**4 LONG TERM DEVELOPMENT STATEMENT AND GS(M)R SAFETY CASE STORAGE VOLUME**

**4.1 Publication and content of Long Term Development Statement**

4.1.1 On the basis of the information provided:

- (a) to National Gas Transmission by Users, other responses to the Transporting Britain’s Energy consultation process and other information available to it, National Gas Transmission will;
- (b) to the Transporter by Users and other information available to it, the Transporter will

prepare by such date as may be required pursuant to its Transporter’s Licence in year 0, and publish a **Long Term Development** Statement.

4.1.2 The **Long Term Development** Statement will typically include:

- (a) details for year - 1 of actual peak day demand:
    - (i) for the Total System; and
    - (ii) for System Exit Points (other than Unmetered Connected System Exit Points), **however, ensuring compliance to paragraph 3.3.3;**
- .....

(g) a reference date for the making of estimations of demand.

Notwithstanding the foregoing, National Gas Transmission may elect to publish all or part of the information set out above either within the **Ten Year** Statement or separately. Where National Gas Transmission elects to publish such information separately from the **Ten Year** Statement, National Gas Transmission shall not be required to update such information at any time after publication.

4.1.3 The details or estimates under paragraphs 4.1.2(a)(ii) and 4.1.2(b)(ii) will be given in respect of each NTS Exit Point **on an individual basis**; (but not for Storage Connection Points).

4.2.1 National Gas Transmission will prepare and publish as GS(M)R Safety Case Storage Volume, by the time such estimates are required for the purposes of Section Q (and accordingly before preparing the **Ten Year** Statement) estimates for year 1 of:

4.2.4 The **Ten Year** Statement may contain up-dated details of the matters of which details for year 1 are contained in the GS(M)R Safety Case Storage Volume, notwithstanding which the details in the GS(M)R Safety Case Storage Volume will prevail for the purposes of the Code.

(g) a reference date for the making of estimations of demand.

Notwithstanding the foregoing, National Gas Transmission may elect to publish all or part of the information set out above either within the **Long Term Development** Statement or separately. Where National Gas Transmission elects to publish such information separately from the **Long Term Development** Statement, National Gas Transmission shall not be required to update such information at any time after publication.

4.1.3 The **aggregated** details or estimates under paragraphs 4.1.2(a)(ii) and 4.1.2(b)(ii) will be given in respect of each NTS Exit Point **category ensuring compliance to paragraph 3.3.3**; (but not for Storage Connection Points).

4.2.1 National Gas Transmission will prepare and publish as GS(M)R Safety Case Storage Volume, by the time such estimates are required for the purposes of Section Q (and accordingly before preparing the **Long Term Development** Statement) estimates for year 1 of:

4.2.4 The **Long Term Development** Statement may contain up-dated details of the matters of which details for year 1 are contained in the GS(M)R Safety Case Storage Volume, notwithstanding which the details in the GS(M)R Safety Case Storage Volume will prevail for the purposes of the Code.