Stage 02: Workgroup Report

process? 0519: 01 Modification 02 Workgroup Report Harmonisation of Reference Draft Modification 03 **Conditions at Interconnection Points** Report Final Modification 04 Report This modification seeks to facilitate compliance with requirements to implement harmonised reference conditions that are contained in the EU Network Code on Interoperability and Data Exchange Rules. It proposes to adopt the use of such conditions for mandated processes at Interconnection Points (IPs) whilst allowing processes at other points to continue operating to the current GB reference conditions.

The Workgroup recommends that this modification should now proceed to consultation.

High Impact:

Medium Impact: Interconnection Point Users, National Grid Gas Transmission

Low Impact:

At what stage is this document in the

Contents

- 1 Summary
- 2 Why Change?
- 3 Solution
- 4 Relevant Objectives
- 5 Implementation
- 6 Impacts
- 7 Legal Text
- 8 Recommendation
- 9 Appendix A Interoperability Code Extract

About this document:

This report will be presented to the panel on 19 February 2015.

The Panel will consider whether the modification should proceed to consultation or be returned to the workgroup for further assessment.

The Workgroup recommends the following timetable:				
Initial consideration by Workgroup	02 December 2014			
Amended Modification considered by Workgroup	26 January 2015			
Workgroup Report presented to Panel	19 February 2015			
Draft Modification Report issued for consultation	19 February 2015			
Consultation Close-out for representations	12 March 2015			
Final Modification Report presented to Panel	16 March 2015			
UNC Modification Panel decision	16 April 2015			
	10 April 2015			



1 Summary

Is this a Self-Governance Modification?

The Modification Panel determined that this modification is not suitable as a self-governance modification because it is to be considered in the context of other EU-driven changes that will have a material effect on commercial activities connected with the transportation of gas conveyed via the National Transmission System and the operation of this pipeline system¹.

Why Change?

The European Network Code on Interoperability and Data Exchange (hereafter referred to in this modification as "EU Interoperability Code") requires the use of reference conditions of 0°C for volume and 25°C for calorific value (hereafter referred to in this modification as "0/25") for any data exchange and data publication related to Regulation (EC) No 715/2009. The GB regime currently uses reference conditions of 15°C for volume and 15°C for calorific value (hereafter referred to in this modification as "15/15") and the UNC therefore needs to be amended to reflect the use of different reference conditions for these new IP processes.

It is the view of the Proposer that the new capacity booking process and new nominations process that will be introduced at GB IPs will be captured by the "data exchange" provisions referred to in the EU Interoperability Code.

Solution

The proposed solution aims to 'ring-fence' the application of 0/25 reference conditions to the IP processes for which they are mandated whilst keeping processes at all other GB system points, as well as operational and GB User balancing, unchanged at 15/15 conditions. Capacity will be booked and energy will be nominated and allocated on a 0/25 basis, with an IP 'balancing allocation', which corrects to 15/15, added to the energy allocation.

It is envisaged that UNC, General Terms, Section C Interpretation will need to be amended.

Relevant Objectives

This modification will better facilitate achievement of Relevant Objective (g) Compliance with the Regulation and any relevant legally binding decisions of the European Commission and/or the Agency for the Co-operation of Energy Regulators by implementing the requirements of the EU Interoperability Code (linked to requirements in the EU CAM and Balancing Codes) to use reference temperatures of 0/25 for capacity and nominations processes at the IPs.

Implementation

No specific implementation timescales are proposed, however this modification would need to be implemented no later than 1st May 2016 to be compliant with the provisions of the EU Interoperability Code.

Does this modification affect the Nexus delivery, if so, how?

This modification is one of a suite of EU-driven UNC modifications which form an EU delivery programme. The delivery of system changes associated with this EU programme is already being managed alongside Project Nexus-related changes.

¹ The relevant self-governance criteria as specified in SSC A11 Network Code and Uniform Network Code,

2 Why Change?

Measurement of a quantity of gas is sensitive to several factors, one of which is temperature. Therefore, in order to derive consistency, measurements are 'corrected' to constant reference temperatures for volume and for calorific value in order to derive an energy measurement. At present, these reference temperatures vary across EU member states, for example the majority of Western Europe correct to 0°C for volume and 25°C for CV, whereas GB and ROI/NI operate to 15°C for volume and 15°C for CV.

Whilst reference temperatures fundamentally relate to a physical measurement process, 'commercial' energy figures such as User capacity bookings, nominations and allocations may also be declared at particular reference conditions by virtue of the physical arrangements that prevail which UNC Section GTC 'Interpretation' recognises.

The EU Interoperability Code requires harmonisation of reference conditions at 0/25 "for any data exchange and data publication related to Regulation (EC) No 715/2009" but allows certain exemptions. The GB regime currently uses 15/15 reference conditions both for physical measurement and commercial processes in accordance with UNC, General Terms, Section C, 'Interpretation'. The UNC therefore needs to be amended to reflect the use of different reference conditions for these new IP processes.

It is the view of Workgroup participants that the new capacity booking process and new nominations process that will be introduced at GB IPs will be captured by the "data exchange" provisions referred to in the EU Interoperability Code, although National Grid NTS intends to seek an exemption to be granted by Ofgem for the application of the common reference conditions in respect of the Moffat IP pursuant to Article 13(3) of the EU Interoperability Code.

3 Solution

The proposed solution aims to 'ring-fence' the application of 0/25 reference conditions to the IP processes for which they are mandated whilst keeping processes at all other points, as well as operational and GB User balancing unchanged at 15/15 conditions. The solution to apply to the GB IPs only² is as follows:

Capacity

- Capacity will be made available and booked by Users on PRISMA on a 0/25 basis;
- National Grid NTS will not convert either existing or future User bookings within Gemini; and
- National Grid NTS will not seek to make any change to its baseline capacity obligations at the IPs as a consequence of this Modification.

Energy

- User nominations to be submitted at 0/25 conditions;
- National Grid NTS and its adjacent TSOs will conduct the matching of User nominations at 0/25 conditions;
- Confirmed nominations (post matching) will be provided to Users on a 0/25 basis;

² The Moffat IP may be excluded – see the 'Why Change' section.

- User allocations (UDQIs and UDQOs) will be determined on a 0/25 basis; and
- GB User balancing will be maintained at 15/15 by adding an additional quantity of gas (an 'IP balancing allocation') to IP Users' imbalance accounts in Gemini equal to the difference between the 0/25 allocation and the value of that energy at 15/15 reference conditions using a fixed conversion factor of 0.9990.

For example, if an IP User were to nominate a quantity of 100,000 kWh out of the NTS at an IP, a quantity of 99,900 kWh would contribute to that User's Daily Imbalance for that Gas Day. Conversely, if an IP User nominated a quantity of 100,000 kWh into the NTS at an IP, a quantity of 100,100 kWh would contribute to its Daily Imbalance for that Gas Day. The calculations are shown in the table below.

	Nomination (kWh)	UDQO	UDQI	Conversion Factor	Adjustment to UDQI/UDQO	Shipper imbalance
NTS Exit	100,000	100,000	0	0.9990	-100	99,900
NTS						
Entry	100,000	0	100,000	0.9990	100	100,100

User Pays		
Classification of the modification as User Pays, or not, and the justification for such classification.	No User Pays service would be created or amended by implementation of this modification and it is not, therefore, classified as a User Pays modification.	
Identification of Users of the service, the proposed split of the recovery between Gas Transporters and Users for User Pays costs and the justification for such view.	Not Applicable	
Proposed charge(s) for application of User Pays charges to Shippers.	Not Applicable	
Proposed charge for inclusion in the Agency Charging Statement (ACS) – to be completed upon receipt of a cost estimate from Xoserve.	Not Applicable	

This modification seeks to amend the UNC to comply with European Network Code delivery into the GB gas regime. It is part of a wider suite of UNC changes that are being proposed to achieve compliance with the European Network Codes. National Grid NTS has been allocated some funding through the RIIO-T1 price control process for EU market facilitation. National Grid NTS expects to be able to utilise this funding to meet the costs of this EU-related change and where this proves insufficient it anticipates using the mid-point review as the mechanism to address any funding gaps. Therefore no User Pays charges will be raised in relation to this modification.

4 Relevant Objectives

Impact of the modification on the Relevant Objectives:

Re	levant Objective	Identified impact
a)	Efficient and economic operation of the pipe-line system.	None
b)	Coordinated, efficient and economic operation of(i) the combined pipe-line system, and/ or(ii) the pipe-line system of one or more other relevant gas transporters.	None
c)	Efficient discharge of the licensee's obligations.	None
d)	 Securing of effective competition: (i) between relevant shippers; (ii) between relevant suppliers; and/or (iii) between DN operators (who have entered into transportation arrangements with other relevant gas transporters) and relevant shippers. 	None
e)	Provision of reasonable economic incentives for relevant suppliers to secure that the domestic customer supply security standards are satisfied as respects the availability of gas to their domestic customers.	None
f)	Promotion of efficiency in the implementation and administration of the Code.	None
g)	Compliance with the Regulation and any relevant legally binding decisions of the European Commission and/or the Agency for the Co-operation of Energy Regulators.	Positive

This modification will facilitate compliance with European legislative requirements by implementing the requirements of the EU Interoperability Code (linked to requirements in the EU CAM and Balancing Codes) to use reference temperatures of 0/25 for capacity and nominations processes at the IPs.

5 Implementation

No specific implementation timescales are proposed, however this modification would need to be implemented no later than 1st May 2016 to be compliant with the provisions of the EU Interoperability Code.

6 Impacts

Does this modification impact a Significant Code Review (SCR) or other significant industry change projects, if so, how?

This modification is one of a suite of EU-driven UNC modifications, which form an EU delivery programme. The delivery of system changes associated with this EU programme is already being managed alongside Project Nexus-related changes.

This modification is not essential to the go-live of the UK Link Replacement programme.

7 Legal Text

Text Commentary

Text commentary has been provided by National Grid NTS for review by the Workgroup and is published alongside this report.

Text

The Text published alongside this report has been prepared by National Grid NTS at the request of the Panel and no issues were raised by the Workgroup regarding its content.

8 Recommendation

The Workgroup invites the Panel to:

• AGREE that this modification should be submitted for consultation.

CHAPTER III Units

Article 13

Common set of units

- 1. Each transmission system operator shall use the common set of units defined in this Article for any data exchange and data publication related to Regulation (EC) No 715/2009.
- 2. For the parameters of pressure, temperature, volume, gross calorific value, energy, and Wobbe-index the transmission system operators shall use:
 - (a) pressure: bar
 - (b) temperature: °C (degree Celsius)
 - (c) volume: m³
 - (d) gross calorific value (GCV): kWh/m³
 - (e) energy: kWh (based on GCV)
 - (f) Wobbe-index: kWh/m³ (based on GCV)

For pressure, the transmission system operators shall indicate whether it refers to absolute pressure (bar (a)) or gauge pressure (bar (g)).

The reference conditions for volume shall be 0°C and 1.01325 bar(a). For GCV, energy and Wobbe-index the default combustion reference temperature shall be 25°C.

Whenever transmission system operators communicate data on the volume, GCV, energy and Wobbe-index, they shall specify under which reference conditions these values were calculated.

3. In cases where one Member State is connected to only one other Member State, the adjacent transmission system operators and the parties they communicate with may agree to continue to use other reference conditions for data exchange in connection with Regulation (EC) No 715/2009, subject to the approval of their national regulatory authorities.

Article 14

Additional units

The transmission system operators and the parties they communicate with in connection with Regulation (EC) No 715/2009 may agree to use, in addition to the common set of units, additional units or reference conditions for data exchange or data publication. In such a situation conversion between reference conditions shall be done on the basis of the actual gas composition. If the relevant gas composition data is not available, the conversion factors used shall be consistent with the Annex based on EN ISO 13443 "Natural gas – Standard reference conditions" in the version applicable at the time.