

**CODE MODIFICATION PROPOSAL No. 0049**  
"Optional Limits for Inert Gases at System Entry Points"  
Version 2.0

**Date:** 10/01/2006

**Proposed Implementation Date:** 01/11/2005

**Urgency:** Non-Urgent

**Proposer's preferred route through modification procedures and if applicable, justification for Urgency**

(see the criteria at [http://www.ofgem.gov.uk/temp/ofgem/cache/cmsattach/2752\\_Urgency\\_Criteria.pdf](http://www.ofgem.gov.uk/temp/ofgem/cache/cmsattach/2752_Urgency_Criteria.pdf))

Transco NTS seeks this Modification Proposal to proceed direct to consultation in accordance with Section 7.3 of the Modification Rules in the UNC.

**Nature and Purpose of Proposal (including consequence of non implementation)**

Transco NTS has received several requests from prospective and existing Delivery Facility Operators seeking to bring gas into the NTS with levels of Nitrogen, Carbon Dioxide and Total Inerts ("inert gases") that are above the levels set out in A 5.3 of the 2004 Transco Ten Year Statement. The levels requested are consistent with the inert gas limits that EASEE-gas (European Association for Streamlining of Energy Exchange) has recommended in its draft document Common Business Practice (CBP) for "Harmonisation of Natural Gas Quality". If approved by the EASEE-gas executive, the CBP would provide a voluntary gas specification for transmission system cross border points and EU transmission network entry points.

The UNC provides that the gas quality specifications in an existing Network Entry Provisions can be varied either by agreement of all Users at that entry point or by following the UNC Modification Rules. As a result, a number of Modification Proposals have been raised and implemented which have enabled changes to be made to existing Network Entry Provisions. It is proposed that the UNC is amended to facilitate all Delivery Facility Operators having the option to adopt common limits for the inert gas parameters specified in the table below. Implementation of this Proposal would enable these limits to be introduced at any existing entry point without the need to raise a Modification Proposal in support of each request.

Table 1. Proposed optional inert gas limits

<b>Gas Quality Characteristics</b>	<b>Proposed optional limit</b>
<b>Total Inert Gases</b>	No direct limit
<b>Nitrogen</b>	No direct limit
<b>Carbon Dioxide</b>	Not more than 2.5% (molar)

Obligations with respect to the Gas Safety (Management) Regulations 1996 (GS(M)R) will remain. Therefore, although no direct limits are proposed for nitrogen and total inerts, within

this Modification Proposal, the GS(M)R Wobbe Number places indirect limits on these components.

These optional limits could also only be granted at System Entry Points where Transco NTS would not be in breach of any contractual obligations in respect of making compliant gas available at NTS Exit Points.

For clarity, the implementation of these proposed limits for a specific System Entry Point, if requested by a Delivery Facility Operator, would be through amendment of the relevant Network Entry Provisions.

Specific legal text for this purpose is also required because as currently drafted Section I 2.2.3 contemplates that the Network Entry Provisions may be amended for the purposes of the Code by way of a Code Modification following agreement by the Transporter and the Delivery Facility Operator to amend the Network Entry Provisions in respect of a specific Connected Delivery Facility. However Transco NTS wishes that existing Network Entry Provisions may be amended to permit the new inert gas limits at potentially more than one Connected Delivery Facility. In order to avoid having to raise a new Code Modification each time such amendment is agreed with the relevant Delivery Facility Operator, it is proposed that paragraph 2.2 of Section I is modified so that such amended Network Entry Provisions become effective for the purposes of Code each time such amendment is agreed. Such proposal will apply only in respect of an amendment to inert gas limits.

The Proposal, were it to be implemented, would allow Delivery Facility Operators to request the inert gas limits at System Entry Points at the levels specified in Table 1, thereby facilitating their respective contractual inert gas limits towards a common level. The Proposal would not impose changes for System Entry Points – for example those with entry provisions that permit Carbon Dioxide limits in excess of 2.5% may choose to retain their existing arrangements.

**Basis upon which the Proposer considers that it will better facilitate the achievement of the Relevant Objectives, specified in Standard Special Condition A11.1 & 2 of the Gas Transporters Licence**

Transco NTS considers this Proposal would, if implemented, better facilitate the following Relevant Objectives as set out in its Gas Transporters Licence:

- in respect of Standard Special Condition A11 paragraph 1(a), the Proposal would better facilitate the efficient and economic operation of the NTS pipeline system by expanding the range of gas sources that could be made available at System Entry Points without gas processing being undertaken upstream of the System Entry Point. This would be expected to increase competition in the provision of gas balancing and other system services that Transco NTS must procure to operate its pipeline system;
- in respect of Standard Special Condition A11 paragraph 1(b), the Proposal would better facilitate the co-ordinated, efficient and economic operation of the combined pipe-line system by allowing an increased number of gas sources to flow onto the Total System without gas processing being undertaken upstream of the System Entry Point. This would assist other relevant transporters to better manage their respective systems;

- in respect of Standard Special Condition A11 paragraph 1(d) (the securing of effective competition), the Proposal would better facilitate the achievement of securing effective competition between the relevant shippers and relevant suppliers by:
  - allowing additional UK gas production fields to be brought on stream;
  - enabling additional ullage capacity and enhancing the availability of proven gas supplies at many Connected Delivery Facilities;
  - allowing some Connected Delivery Facility operators increased scope to process greater quantities of offshore reserves and to extend the life of fields and terminals; and
  - incentivising producers to develop new, proven gas fields with higher inert gas components.

**Any further information (Optional), likely impact on systems, processes or procedures, Proposer's view on implementation timescales and suggested text**

Implementation of this modification proposal is not believed to have any impact on systems, processes or procedures.

- a. **Proposed implementation timetable**
- b. **Proposed legal text**

**UNIFORM NETWORK CODE - TRANSPORTATION PRINCIPAL DOCUMENT**  
**SECTION I - ENTRY REQUIREMENTS**

*Paragraph 2.2.3 amend to read as follows:*

2.2.3 "Where:

- (a) the Transporter and the relevant Delivery Facility Operator have agreed (subject to a Code Modification) upon an amendment to any such Network Entry Provisions, such Network Entry Provisions may be amended for the purposes of the Code by way of Code Modification pursuant to the Modification Rules;
- (b) in respect of any Connected Delivery Facility, the Transporter agrees to a request by a Delivery Facility Operator to amend the Network Entry Provisions to contain revised Inert Gas Limits (without prejudice to any other conditions that have been agreed by the Transporter with the Delivery Facility Operator), then on the date of such agreement the Network Entry Provisions will be amended for the purposes of the Code;

and for which purposes only the Network Entry Provisions shall be deemed to form part of Code.”

Add paragraph 2.2.7 to read:

“

2.2.7 “Inert Gas Limits” means in the case of:

- (a) carbon dioxide, the limit shall be not more than 2.5% (molar);
- (b) nitrogen, there shall be no direct limit.”

**c. Advantages of the Proposal**

Transco NTS believes that this Proposal, if implemented, would:

- allow an increased number of gas sources to be brought into the UK without the need to raise a Modification Proposal;
- allow Delivery Facility Operators to request the inert gas limits as in table 1 without having to raise specific UNC Modification Proposals;
- encourage the movement towards a common playing field in respect of contractual inert gas limits.

**d. Disadvantages of the Proposal**

Transco NTS is unaware of any disadvantages.

**e. The implications of implementing the Modification Proposal on security of supply, operation of the Total System and industry fragmentation**

Transco NTS considers that implementation of this Proposal would enhance security of supply by allowing Delivery Facility Operators the ability to adopt the inert gas limits proposed in table 1, which would increase the number of gas sources that are able to flow into the Total System.

**f. The implication for Transporters and each Transporter of implementing the Modification Proposal, including**

**i. implications for operation of the System**

Transco NTS considers that implementation of this Proposal would allow Delivery Facility Operators the ability to adopt the inert gas limits proposed in table 1, which would increase the number of gas sources that are able to flow into the Total System. This would increase competition in the provision of gas balancing and other system services that Transco NTS must procure to operate its pipeline system.

**ii. development and capital cost and operating cost implications**

Transco NTS does not anticipate incurring any development or capital costs as a consequence of implementing this Modification Proposal.

**iii. extent to which it is appropriate to recover the costs, and proposal for the most appropriate way to recover the costs**

Transco NTS does not believe that this Proposal, if implemented, requires it to recover any additional costs.

**iv. analysis of the consequences (if any) this proposal would have on price regulation**

Transco NTS does not believe this Proposal, if implemented, would have any consequences on price regulation.

**g. The consequence of implementing the Modification Proposal on the level of contractual risk of each Transporter under the Code as modified by the Modification Proposal**

Transco NTS considers that implementation of this Proposal would have no effect on the level of contractual risk of each Transporter.

**h. The high level indication of the areas of the UK Link System likely to be affected, together with the development implications and other implications for the UK Link Systems and related computer systems of each Transporter and Users**

Transco NTS does not envisage any impact on the UK Link System if this Proposal were to be implemented.

**i. The implications of implementing the Modification Proposal for Users, including administrative and operational costs and level of contractual risk**

Transco NTS believes that the typical CV of gas delivered will not appreciably change and therefore does not anticipate any significant increase in the costs of CV shrinkage as a consequence of implementing this Modification Proposal.

**j. The implications of implementing the Modification Proposal for Terminal Operators, Consumers, Connected System Operators, Suppliers, producers and, any Non Code Party**

Transco NTS considers that the implementation of this modification, if Delivery Facility Operators adopt wider inert gas limits, would under most circumstances lead to minimal increases in the levels of Nitrogen and Carbon Dioxide in the gas within the system, and therefore the gas delivered to consumers. However, under extreme scenarios, there could be a modest increase in inerts, for example, where a consumer was close to an entry point at which wider inert gas limits was adopted.

**Code Concerned, sections and paragraphs**

UNC Transportation Principle Document,  
Section I

**Proposer's Representative**

Nick King (National Grid Transco - UKT)

**Proposer**

Richard Court (National Grid Transco - UKT)

**Signature**

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