

Stage 02: Workgroup Report

0365:

National Grid NTS Initiated Flow Swaps

What stage is this document in the process?

01 Proposal

02 Workgroup Report

Draft Modification Report

Final Modification Report

This modification proposal removes the impact that a National Grid NTS flow swap request may have, upon acceptance, on the relevant DNO Users individual flat overrun position in the enduring regime.



The Workgroup recommends

Insert recommended route for the XXXX name of modification



High Impact:



Medium Impact:

National Grid NTS and DNO Users



Low Impact:

Insert name(s) of impact

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- 3 Solution
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About this document:

The purpose of this report is make a recommendation to the Panel, to be held on XX XXXX 201X, on whether Modification 0365 is sufficiently developed to proceed to the Consultation Phase and to submit any further recommendations in respect of the definition and assessment of this modification.



Any questions?

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1 Summary

This section should mirror the current wording within the proposal, including any changes that the Proposer has agreed to make as a result of Workgroup discussions.

Is this a Self Governance Modification

This proposal is not considered to be a Self Governance Modification.

Why Change?

Under current Uniform Network Code (UNC) arrangements National Grid NTS and/or a DNO User may request a revision to Offtake Profile Notices (OPNs) for two or more offtakes within a particular Local Distribution Zone (LDZ) where the revised rates of offtake requested are the same as the aggregate rates of offtake under the prevailing OPN at the time the request is made. This process is commonly known as a flow swap request.

From the 1st of October 2012 (the start date of enduring exit regime) DNO Users are subject to Chargeable NTS Exit (Flat) Overruns and deemed applications (please refer to section 3 for further details).

Where a National Grid NTS flow swap request would directly result in the relevant DNO User either incurring, or increasing, the quantity of an individual flat overrun at the increasing NTS/LDZ Offtake(s) (that may ultimately lead to a Chargeable NTS Exit (Flat) Overrun and therefore a deemed application) the DNO User could potentially decline National Grid NTS' flow swap request.

National Grid NTS believes that it would be inappropriate for a National Grid NTS initiated flow swap request to directly result in the relevant DNO User either incurring or increasing the quantity of an individual flat overrun.

Given the above, National Grid NTS is proposing a solution that neutralises the impact a National Grid NTS flow swap request may have on the relevant DNO Users individual flat overrun quantity from October 1^{st} 2012 onwards.

Solution

National Grid NTS proposes that, where the DNO User hasn't declined a National Grid NTS' flow swap request, a quantity of the Firm NTS Exit (Flat) Capacity Entitlement held by the relevant DNO User will be transferred from the NTS/LDZ Offtake where (as a result of the National Grid NTS request) the revised rates of offtake would decrease (the reducing NTS/LDZ Offtake(s)) to that same DNO User at the NTS/LDZ Offtake where as a result of the National Grid NTS request, the revised rates of offtake would increase (the increasing NTS/LDZ Offtake(s)). The quantity of Firm NTS Exit (Flat) Capacity entitlement transferred will, where possible, be equal to the end of day quantity of Gas requested to be transferred via the flow swap. This has the effect of neutralising any impact the flow swap would have on the DNO Users individual flat overrun position. For clarification and based on the DNO Users NTS Exit (Flat) Capacity entitlement at the time of the flow swap request being made, National Grid NTS will



The UNC can be found on the Joint Office of Gas Transporter website at

:www.gasgovernance.co.uk/UN

What is an OPN?

In relation to a relevant Systen Exit Point or NTS/LDZ
Offtake:(a) a notification
("Offtake Profile Notice")
shall be provided to the
Transporter, not later than the time on the Preceding Day specified in the Network Exit
Provisions, setting out rates of offtake throughout the Gas
Flow Day, as defined under
UNC TPD J4.5.1(a)

What is an individual flat overrun

If for any reason, in relation to an NTS Exit Point and a Day:
(a) the quantity of gas offtaker by a User at the NTS Exit Point on the Day exceeds the User's Fully Adjusted Available NTS Exit (Flat) Capacity (an "individual flat overrun") as defined under UNC TPD B3.13.1(a)

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not transfer a quantity of NTS Exit (Flat) Capacity that would result in the DNO User holding negative Firm NTS Exit (Flat) Capacity entitlement at the reducing NTS/LDZ Offtake(s).

Impacts & Costs

- Mitigates the impact a National Grid NTS flow swap request may have on a DNO
 Users individual flat overrun position at the relevant NTS/LDZ Offtake(s) and
 ultimately the associated commercial exposure.
- Minimises the risk of a DNO User declining a National Grid NTS flow swap request on the grounds that it would negatively impact the relevant DNO Users individual flat overrun position at the increasing NTS/LDZ Offtake(s).
- Facilitates National Grid NTS use of Flow Swap Requests to manage its system in an
 economic and efficient manner which enables National Grid NTS to meet system
 demands and aid security of supply.
- DNO Users Firm NTS Exit (Flat) Capacity entitlements will be impacted at the increasing and reducing NTS/LDZ Offtake(s) detailed as part of the National Grid NTS requested flow swap.

Costs:

- It is the view of National Grid NTS that this Proposal is a User Pays Proposal.
- National Grid NTS raised a Rough Order Of Magnitude (ROM) with xoserve who
 have confirmed that this UNC Modification proposal will result in a change to the
 Gemini system and therefore also a change/addition to the services provided by
 xoserve. Flow Swaps are currently in scope for development in conjunction with the
 Gemini Exit Phase 3 system development, as such the justification for a
 change/addition to the services provided by xoserve is based on the necessary
 additional requirements that this UNC Modification Proposal introduces.
- The User Pays Service that is being proposed in this Modification Proposal is that National Grid NTS has the ability to transfer a quantity of the relevant DNO Users Firm NTS Exit (Flat) Capacity Entitlement from the reducing NTS/LDZ offtake to the receiving (increasing) NTS/LDZ offtake(s) within the same LDZ, unless the DNO User is of the reasonable opinion that the safe and efficient operation of the LDZ (consistent with the DNO's obligations to Users under the Transportation Principal Document) would be materially prejudiced by the flow of gas at the relevant Offtakes on the basis of the requested revisions
- National Grid NTS recognise that, although all Users could benefit from this
 proposal through the more economic and efficient running of the system, the main
 beneficiary is National Grid NTS. As such National Grid NTS are proposing to fund
 100% of this change.
- The level of the costs (as detailed in the ROM) is dependant on timing of the system changes and are as follows:

What is a Chargeable NTS Exit (Flat) Overrun?

3.13.1 If for any reason, in relation to an NTS Exit Point and a Day:

(a) the quantity of gas offtaken by a User at the NTS Exit Point on the Day exceeds

the User's Fully Adjusted Available NTS Exit (Flat) Capacity (an "individual

flat overrun");and

(b) the aggregate quantity of gas offtaken by all Users at the NTS Exit Point on the Day exceeds the sum of the Users' Fully Adjusted Available NTS Exit (Flat)

Capacity (an "aggregate flat overrun")

there is a "Chargeable

NTS Exit (Flat) Overrun",
and the User shall pay a
charge

("NTS Exit (Flat)
Overrun Charge") in
respect of NTS Exit Capacity
at that NTS
Exit Point on that Day as
defined under UNC TPD
B3.13.1

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Estimated costs:

<u>Exit Reform Phase III implementation</u>: The solution will cost at least **£67k**, but probably not more than **£100k**

NB: These are incremental costs for inclusion of the new rules into Phase III Exit Reform and are in addition to the current rules in Phase III scope, and are indicative as to the amount of money that the new MOD would attribute within the release. These costs are subject to change, dependant upon the timing of inclusion with the Phase III project.

<u>Stand-alone implementation of new MOD</u>: The solution will cost at least **£144k**, but probably not more than **£206k**

<u>Stand-alone implementation of all Flow Swap functionality</u>: The solution will cost at least **£205k**, but probably not more than **£298k**. **NB**. There would be a reciprocal reduction in total Exit Reform phase III costs of between 0% and 3%

Implementation

National Grid NTS are proposing to implement the necessary system changes in conjunction with the Gemini Exit reform Phase 3 implementation.

The Case for Change

By ensuring that a National Grid NTS flow swap request will have no impact upon a DNO Users individual flat overrun position at the relevant NTS/LDZ Offtake(s), this proposal will provide greater certainty to National Grid NTS that a flow swap request will not be declined by a DNO User, therefore allowing National Grid NTS to utilise flow swaps in the enduring regime in the same manner that it is currently able to. This will ensure the economic and efficient running of the system is not impacted, which in the absence of the proposed changes it may be.

Additionally this proposal ensures that, in complying with a National Grid NTS flow swap request, the DNO User wouldn't then face the risk of consequential individual flat overruns (and ultimately Chargeable NTS Exit (Flat) Overruns and deemed applications) that may otherwise have resulted.

In the absence of the proposed changes any individual flat overrun quantity of the DNO User could, as a result of complying with a National Grid NTS flow swap request, increase at the relevant NTS/LDZ offtake. This could lead to increased NTS Exit (Flat) Overrun charges and any corresponding deemed applications. National Grid NTS believes that it would be inappropriate for a DNO User to become financially committed to Enduring NTS Exit (Flat) Capacity, through the deemed application process, as a result of an accepted National Grid NTS flow swap request. There is also a concern that any consequential deemed applications may also provide inflated investment signals that are not necessarily warranted given that they may have originated from a National Grid NTS flow swap request.

What is an NTS/LDZ offtake?

An "NTS/LDZ Offtake" is an Offtake at which gas can flow from the NTS into an LDZ defined under OAD A2.1.3

Where can I find the rules for "flow swaps?"

The rules for Flow Swaps defined under UNC OAD I2.4 and I2.5

What is NTS Exit Flat Capacity

"NTS Exit (Flat) Capacity", is capacity which a User is treated as utilising in offtaking gas from the NTS at a rate which (for a given Daily Quantity) is even over the course of a Day; B1.2.3

What is an Annual Application Window

The "Annual Application Window" in a Gas Year (Y) is the period commencing at 08:00 hours and ending on 17:00 hours on each Business Day in July as defined under UNC TPD B3.1.9

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Recommendations

The Workgroup recommends that this Modification should be \ldots

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2 Why Change?

Taking at its starting point any text submitted by the Proposer, this section shall be completed by the Chair of the Workgroup to identify the need for change. It should reflect and attribute any differing views of Workgroup members and be agreed by the group as a whole prior to submission to Panel.

Implementation of Modification Proposal 0195AV established the basis for the reform of NTS Exit Capacity booking arrangements that, in full, are scheduled to come into effect on 1 October 2012.

As part of these arrangements, where the quantity of gas offtaken by a User at an NTS Exit Point on the day exceeds that User's Fully Adjusted Available NTS Exit (Flat) Capacity Entitlement and the aggregate quantity of gas offtaken by all Users at the NTS Exit Point on the Day exceeds the sum of the Users' Fully Adjusted Available NTS Exit (Flat) Capacity, there is a Chargeable NTS Exit (Flat) Overrun and the User shall pay a NTS Exit (Flat) Overrun Charge.

Additionally any User who has a Chargeable NTS Exit (Flat) Overrun in excess of 100,000 kWh/day, in any 12 month period ending March 31st ("Relevant Period"), is deemed to have made an application for Enduring Annual NTS Exit (Flat) Capacity at that same NTS Exit Point equal to the highest Chargeable NTS Exit (Flat) Overrun amount (the Deemed Application Amount) which the User incurred in that same Relevant Period at that same NTS Exit Point. The application would be made on the first day of the next following Annual Application Window (Gas Year Y) and subject to User Commitment in accordance with the principles in the Exit Capacity Release Methodology Statement.

Under current Uniform Network Code (UNC) arrangements National Grid NTS and/or the DNO User may request a revision to their OPNs for two or more NTS/LDZ offtakes within a particular LDZ, where the revised rates of offtake requested are the same as the aggregate rates of offtake under the prevailing OPNs at the time the request is made. This process is commonly known as a flow swap request.

The DNO User is required to comply with National Grid NTS' flow swap request unless, in the DNO's reasonable opinion, the safe and efficient operation of the LDZ (consistent with the DNO's obligations to Users under the UNC Transportation Principal Document) would be materially prejudiced by the flow of gas at the relevant Offtakes on the basis of the requested revisions, in which case the DNO User shall:

- (a) contact and inform National Grid NTS of the position as soon as possible following receipt of National Grid NTS' request; and
- (b) cooperate with National Grid NTS and use all reasonable endeavours to agree upon alternative revisions to Offtake Profile Notices

From the 1^{st} of October 2012 DNO Users are subject to Chargeable NTS Exit (Flat) Overruns and deemed applications as detailed above.

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Where a flow swap request from National Grid NTS would directly result in the relevant DNO User either incurring or increasing the quantity of an individual flat overrun (that may ultimately lead to a Chargeable NTS Exit (Flat) Overrun and therefore a deemed application) at the increasing NTS/LDZ offtake(s) the DNO User could potentially decline National Grid NTS' flow swap request.

National Grid NTS believes that it would be inappropriate for a DNO User who has complied with a National Grid NTS flow swap request to consequently incur or increase the quantity of an individual flat overrun at the increasing NTS / LDZ offtake directly as a result of the National Grid NTS initiated flow swap.

Given the above, National Grid NTS is proposing a solution that neutralises the impact that a National Grid NTS flow swap request may have on the relevant DNO Users individual flat overrun quantity from October 1st 2012 onwards.

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3 Solution

Taking at its starting point any text submitted by the Proposer, this section shall be completed by the Chair of the Workgroup to identify the solution. It should reflect and attribute any differing views of Workgroup members and be agreed by the group as a whole prior to submission to Panel.

National Grid NTS proposes that when National Grid NTS request a DNO to submit revised OPN notices for two or more Offtakes for an LDZ (the flow swap request), the National Grid NTS request will specify the quantity of Firm NTS Exit (Flat) Capacity Entitlement held by the DNO user at the reducing NTS/LDZ Offtake(s) proposed to transfer to the increasing NTS/LDZ offtake(s) in addition to:

- The offtakes in respect of which such revision is requested
- The times with effect from which the DNO User is requested to revise the relevant rates of offtake
- The revised rates of offtake requested

Where the relevant DNO User chooses not to decline the National Grid NTS flow swap request within 15 minutes of the request being made, then the aforementioned quantity of Firm NTS Exit (Flat) Capacity Entitlement held by the relevant DNO User at the reducing NTS/LDZ Offtake(s) will be transferred to that same DNO User at the increasing NTS/LDZ Offtake(s) as detailed in the flow swap request.

The quantity of Firm NTS Exit (Flat) Capacity entitlement transferred will be equal to the end of day quantity of Gas requested (in kWh) to be transferred via the flow swap, assuming that quantity of Firm NTS Exit (Flat) Capacity is held by the relevant DNO User at the reducing NTS/LDZ Offtake at the time of the flow swap request being made. This has the effect of neutralising any impact on the DNO Users individual flat overrun position. National Grid NTS will not transfer a quantity of NTS Exit (Flat) Capacity that would result in the DNO User holding negative Firm NTS Exit (Flat) Capacity entitlement at the reducing NTS/LDZ Offtake(s) and this is further illustrated below.

For example, consider a National Grid NTS flow swap request for 500,000 kWh/d from Offtake A to Offtake B within the same LDZ that is effective from 18:00 hrs to the end of the Gas Day. The equivalent quantity of Firm NTS Exit (Flat) Capacity would be 500,000 /24 * 12 = 250,000 kWh. In the event that the DNO Users Firm NTS Exit (Flat) Capacity entitlement at the reducing NTS/LDZ offtake is less than the equivalent flow swap quantity, then 100% of the DNO Users Firm NTS Exit (Flat) Capacity entitlement would be transferred from the decreasing NTS/LDZ Offtake to the increasing NTS/LDZ Offtake.

Where National Grid NTS have requested a Flow Swap and subsequently initiated a transfer of NTS Exit (Flat) Capacity entitlement, the DNO User will have 15 minutes from the request been made to decline the request. Where the request has not been declined within 15 minutes the flow swap request is deemed to have been complied with and the NTS Exit Capacity entitlement will be transferred accordingly.

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From acceptance of the Flow Swap the DNO User has up to a further 15 minutes to send the revised OPNs.

This proposal creates an additional business rule that neutralises the impact of a National Grid NTS initiated flow swap on a DNO Users individual flat overrun position only and does not materially impact the existing flow swap provisions that are detailed under OAD section I 2.4 and 2.5. Therefore the existing flow swap process also applies to this proposal including, but not limited to, the grounds for non-compliance and compliance of the flow swap request. Additionally, the transferred Firm NTS Exit (Flat) Capacity will, for the purposes of UNC, be treated as Firm NTS Exit (Flat) Capacity entitlement held at the increasing NTS/LDZ Offtake by the DNO User and as such the UNC provisions that apply to Firm NTS Exit (Flat) Capacity entitlement held by a User also apply to the transferred capacity.

The proposed solution does not have any impact upon the NTS Exit Capacity invoicing processes but the revised NTS Exit (Flat) Capacity Entitlement will be utilised in determining the relevant DNO Users individual flat overrun position for the relevant Gas Day at the relevant NTS/LDZ Offtake.

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4 Relevant Objectives

Taking at its starting point any text submitted by the Proposer, this section shall be completed by the Chair of the Workgroup. It should reflect and attribute any differing views of Workgroup members and be agreed by the group as a whole prior to submission to Panel.

Implementation will better facilitate the achievement of **Relevant Objectives a, b, c, d, e and f.**

Workgroup's view of the benefits against the Code Relevant Objectives	
Description of Relevant Objective	Identified impact
a) Efficient and economic operation of the pipe-line system.	See explanation Below
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.	See explanation Below
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

The following section should explain how each of the impacts identified above would arise and so further the objective identified.

Standard Special Condition A11 a). Efficient and economic operation of the pipe-line system.

- National Grid NTS believe this Proposal ensures, where a DNO User complies with a
 National Grid NTS initiated Flow Swap, that the DNO User(s) has the comfort that
 there will be no additional risk of consequently receiving an increased Chargeable
 NTS Exit (Flat) Overrun and deemed Application and hence offset some of the risk
 of the flow swap process to the DNO User.
- This will enable the continued co-operation and flexibility that is in place currently for National Grid NTS initiated Flow Swaps by removing a potential risk to the DNO

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User that could otherwise result in the DNO User declining a National Grid NTS Flow Swap request on the basis of the safe and efficient operation of the relevant LDZ.

- This proposal will eliminate the inefficient release of Enduring Annual Exit (Flat)
 Capacity as a result of a deemed application (or an increased deemed application)
 that may otherwise have directly resulted from a National Grid NTS initiated flow
 swap.
- This proposal removes a potential barrier to the acceptance of a National Grid NTS
 initiated Flow Swap and therefore helps to ensure the continued co-operation from
 the DNO User when National Grid NTS request a flow swap. This will enable National
 Grid NTS to continue to manage the system in the most efficient and economic
 manner by having the continued availability of flow swaps.
- The transfer of NTS Exit (Flat) capacity entitlement to meet requested offtake flow rate changes as well as facilitating the efficient and economic operation of the Transmission System allows Flow Swaps to be used as a potential tool that support the economic and efficient operation of the total system by minimising the risk of a constraint and any associated costs and consequently allows the total system to be delivered in a safe and efficient manner.

Standard Special Condition A11 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.

 This proposal allows the continued use of Flow Swaps to be used by National Grid NTS as a tool to support the economic and efficient operation of the total system by minimising the risk of a constraint and any associated costs and consequently allows the total system to be delivered in a safe and efficient manner.

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5 Impacts and Costs

Taking at its starting point any text submitted by the Proposer, this section shall be completed by the Chair of the Workgroup to identify the solution. It should reflect and attribute any differing views of Workgroup members and be agreed by the group as a whole prior to submission to Panel.

Costs

Include here any proposal for the apportionment of implementation costs amongst parties.

Indicative industry costs – User Pays
Classification of the Proposal as User Pays or not and justification for classification
N/a
Identification of Users, proposed split of the recovery between Gas Transporters and Users for User Pays costs and justification
National Grid NTS are proposing to fund 100% of the implementation costs.
Proposed charge(s) for application of Users Pays charges to Shippers
N/a
Proposed charge for inclusion in ACS – to be completed upon receipt of cost estimate from xoserve
N/a

Impacts

Impact on Transporters' Systems and Process	
Transporters' System/Process	Potential impact
UK Link	It is expected that the UK-link functionality will be introduced in conjunction with the Gemini Phase 3 system development
Operational Processes	 Additional information is to be recorded and we would appreciate any views on this (i.e. the capacity transfer quantity) will be provided when National Grid NTS request a flow swap.

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User Pays implications	 As aforementioned, National Grid NTS propose the recovery of any costs is 100% Transporters. As the request is for NTS initiated flow swaps only it is recommended that the User Pays element is 100% National Grid NTS

Impact on Users	
Area of Users' business	Potential impact
Administrative and operational	Views welcomed
Development, capital and operating costs	Views welcomed
Contractual risks	Views welcomed
Legislative, regulatory and contractual obligations and relationships	Views welcomed

Impact on Transporters	
Area of Transporters' business	Potential impact
System operation	 National Grid NTS does not believe this Proposal, if implemented, would adversely affect the physical operation of the System and would provide for greater certainty of offtake flow.
Development, capital and operating costs	 National Grid NTS believes that this Proposal, if implemented will have cost implications with regards to the system changes identified.
Recovery of costs	 National Grid NTS is of the view that this is a User pays Proposal and recovery of costs will be 100 % Transporters (National Grid NTS pay 100% of costs)
Price regulation	None
Contractual risks	• None
Legislative, regulatory and contractual obligations and relationships	• None
Standards of service	• None



Where can I find details of the UNC Standards of Service?

In the Revised FMR
for Transco's Network
Code Modification
0565 Transco
Proposal for
Revision of
Network Code
Standards of
Service at the
following location:
http://www.gasgovern

ance.com/networkcod
earchive/551-575/

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Impact on Code Administration	
Area of Code Administration	Potential impact
Modification Rules	• None
UNC Committees	• None
General administration	None

Impact on Code	
Code section	Potential impact
UNC TPD B3	
OAD section I	

Impact on UNC Related Documents and Other Referenced Documents	
Related Document	Potential impact
Network Entry Agreement (TPD I1.3)	None
Network Exit Agreement (Including Connected System Exit Points) (TPD J1.5.4)	None
Storage Connection Agreement (TPD R1.3.1)	None
UK Link Manual (TPD U1.4)	None
Network Code Operations Reporting Manual (TPD V12)	None
Network Code Validation Rules (TPD V12)	None
ECQ Methodology (TPD V12)	None
Measurement Error Notification Guidelines (TPD V12)	None
Energy Balancing Credit Rules (TPD X2.1)	None
Uniform Network Code Standards of Service (Various)	None

Impact on Core Industry Documents and other documents	
Document	Potential impact
Safety Case or other document under Gas Safety (Management) Regulations	None
Gas Transporter Licence	None

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Other Impacts	
Item impacted	Potential impact
Security of Supply	National Grid NTS feel this proposal maintains Security of Supply
Operation of the Total System	National Grid NTS feel this proposal better facilitates the operation of the Total System
Industry fragmentation	None
Terminal operators, consumers, connected system operators, suppliers, producers and other non code parties	None

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6 Implementation

The Workgroup Chairman should enter here, using information gained from the Proposer, the Transmission Company/Transporter and from any other Workgroup attendees, the likely implementation timetable.



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7 The Case for Change

This section allows further development of the case than is included in the earlier summaries

In addition to that identified above, the Workgroup has identified the following:

Advantages

Insert body copy here

• Insert Bullet here

Disadvantages

Insert body copy here

• Insert Bullet here



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8 Recommendation

The Workgroup invites the Panel to:

- AGREE that Modification 0365 be submitted for consultation; and
- AGREE that Code Administrators should issue Draft Modification Report 0365 for consultation with a close-out of XX XXXX 201X and submit results to the Panel to consider at its meeting on [Panel meeting date].



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