





UNC Modification	At what stage is this document in the process?
<h1>UNC 0678G:</h1> <h2>Amendments to Gas Transmission Charging Regime including a Cost based Optional Capacity Charge</h2>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="border: 2px solid green; border-radius: 10px; padding: 5px; background-color: #00a651; color: white; display: flex; align-items: center; justify-content: center;"> 01 Modification </div> <div style="border: 1px solid #00a651; border-radius: 10px; padding: 5px; background-color: #e0f2f1; display: flex; align-items: center; justify-content: center;"> 02 Workgroup Report </div> <div style="border: 1px solid #00a651; border-radius: 10px; padding: 5px; background-color: #e0f2f1; display: flex; align-items: center; justify-content: center;"> 03 Draft Modification Report </div> <div style="border: 1px solid #00a651; border-radius: 10px; padding: 5px; background-color: #e0f2f1; display: flex; align-items: center; justify-content: center;"> 04 Final Modification Report </div> </div>
<p>Purpose of Modification:</p> <p>The purpose of this Modification proposal is to amend the Gas Transmission Charging regime in order to better meet the relevant charging objectives and customer/stakeholder provided objectives for Gas Transmission Transportation charges and to deliver compliance with relevant EU codes (notably the EU Tariff Code).</p>	
	<p>The Proposer recommends that this Modification should be treated as an Alternative to Modification 0678 and therefore it should proceed as such under the same timetable as that agreed with the Authority for Modification 0678 as far as practicable.</p>
	<p>High Impact:</p> <p>All parties that pay NTS Transportation Charges and / or have a connection to the NTS, and National Grid NTS.</p>
	<p>Medium Impact:</p> <p>N/A</p>
	<p>Low Impact:</p> <p>N/A</p>

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Timetable	
<p>The Proposer recommends the same timetable as set for Modification 0678 is adhered to as far as practicable. That timetable is set out below, is evolving and now includes additional dates. The views expressed by the Proposer at those Workgroups that have already taken place are consistent with the content of this Modification.</p>	
Workgroup 1 - "Approach. Compliance"	29 January 2019
Workgroup 2 - "Integration of RPM, FCC, Revenue Recovery and existing contracts"	31 January 2019
Workgroup 3 - "Multipliers and Discounts. 'Shorthaul' approach" (part of NTSCMF)	05 February 2019
Workgroup 4 - "Compliance. FCC"	11 February 2019
Workgroup 5 - "Non-transmission charges. Final overview"	13 February 2019
Workgroup 6 - "Workgroup Report"	14 February 2019
Workgroup 7 - "Workgroup Report"	18 February 2019
Workgroup 7a - "Assessment of Alternative solutions"	20 February 2019
Workgroup 8 - "Workgroup Report"	25 February 2019
Workgroup 8a - "Assessment of Alternative solutions"	26 February 2019
Workgroup 9 - "Workgroup Report"	27 February 2019
Workgroup 9a - "Assessment of Alternative solutions"	28 February 2019
Workgroup 10 - "Workgroup Report. Compliance"	04 March 2019
Workgroup 10a - "Assessment of Alternative solutions" (part of NTSCMF)	05 March 2019

 Any questions?

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Workgroup 11 – “Finalise Workgroup Report”	06 March 2019	
Draft Modification Report issued for consultation	08 March 2019	
Consultation Close-out for representations	05 April 2019	
Final Modification Report available for Panel	12 April 2019	
Modification Panel decision	18 April 2019	
Final Modification Report issued to Ofgem	23 April 2019	

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1 Summary

What

This Modification 0678G proposes to introduce a new Gas Transmission Charging regime that produces stable and predictable transportation charging and is compliant with the EU Tariff Code (Regulation 2017/460). This Modification also takes into account the decision to reject UNC0621¹ and its Alternatives citing areas of non-compliance. This Proposal addresses the areas of compliance identified in this decision.

¹ See <https://gasgov-mst-files.s3.eu-west-1.amazonaws.com/s3fs-public/ggf/page/2018-12/Ofgem%20Decision%20Letter%200621.pdf>

Why

The Transportation Charging Methodology currently in place for the calculation of Gas Transmission charges, and the methodology to recover Transmission Owner (TO) and System Operator (SO) revenue through Entry and Exit charges, have been in place for a number of years. Whilst there have been some changes in the last ten years, the basic approach to calculating Entry and Exit Capacity charges and the approach to revenue recovery has not substantially changed.

A critique of the current Long Run Marginal Cost (LRMC) methodology (undertaken by the NTSCMF – concluding in January 2017² – with updated analysis presented during development of UNC Modification Proposal 0621 in April 2018³) identified that it is too volatile, unpredictable and does not provide stability of charges for Users.

How

This Modification 0678G proposes to introduce changes to the charging framework by way of making changes to UNC TPD Section Y. It will also be necessary to make changes to other sections of the UNC TPD (Sections B, E, G and S), the Transition Document and EID (Section B).

At its core, this Modification proposes to move from a Reference Price Methodology (RPM) that calculates the capacity prices using the Long Run Marginal Cost (LRMC) method to one that is based on a Capacity Weighted Distance (CWD) approach. It also proposes an updated approach with changes to capacity pricing multipliers, capacity discounts and interruptible pricing review to better meet the required objectives.

It introduces some terminology from the EU Tariff Code, specifically 'Transmission Services Revenue' and 'Non-Transmission Services Revenue'. The revenues will map across to TO and SO revenues thereby not changing the total revenue to be collected through Transportation charges. The more material change will be the amendments to the charging methodologies in calculating the charges that will be applied to recover the allowed revenues from NTS network Users through the Transportation charges.

This Proposal also introduces, for some aspects of this methodology change, mechanisms to review and refine components of the charging framework, notably the Forecasted Contracted Capacity (FCC), capacity pricing multipliers and interruptible pricing, over time so they continue to better facilitate the relevant methodology objectives⁴ and support the evolution of the GB charging regime.

This Proposal should be treated as an Alternative to National Grid's 0678 Modification as it differs from it in the following key areas:

- It introduces an Optional Capacity Charge and associated User commitments to replace the current Optional Commodity Charge which will be included within the UNC. Modification 0678 does not include any optional charge;
- The Proposer recommends that implementation be as soon as possible for legal and compliance purposes but that charges arising from the new methodology take effect no earlier than 01

² Material at <https://www.gasgovernance.co.uk/ntscmf/subg1page>

³ Material at <https://www.gasgovernance.co.uk/0621/200418>

⁴ As described in Standard Special Condition A5: 'Obligations as Regard Charging Methodology' of the NTS Licence, paragraph 5.

October 2020. In settling on this the Proposer has taken regard of industry views on the very low likelihood of achieving a 01 October 2019 date for new charges (with requisite notice periods). The Proposer also notes that the Modification 0621 proposals used this model to separate the date of implementation (to be before 31 May 2019 for compliance purposes) and the date on which charges from the new methodology were intended to take effect (01 October 2019).

2 Governance

Justification for Consideration as an Alternative to Modification 0678

This Modification 0678G addresses the same issues that have been raised under Modification 0678; if either Modification were to be implemented then it would result in major changes to Section Y of the UNC, effectively introducing a new charging methodology for gas transmission. This Modification has many common features to Modification 0678 but the Proposer believes it improves on the solution being proposed by National Grid's 0678 as it re-introduces the concept of an optional charge to avoid inefficient bypass of the NTS.

The timetable that has been set for finalising the Workgroup Report for Modification 0678 is very aggressive but approved by Ofgem under a request for urgency. Being conscious of the need for urgency and the arguments in support of urgency contained within Modification 0678, this Modification should as far as possible follow the same timetable as Modification 0678 so that both proposals can be considered by Panel, industry and Ofgem at the same time, making for an efficient governance process. It is the view of the Proposer that raising this Modification as a new Modification, which may or may not be granted urgent status, would result in a different timetable, would require separate workgroup meetings, be consulted on separately, be considered by Panel separately and would therefore make for an unnecessarily complex and inefficient process. This could severely impact the intentions behind the urgency that has been granted for Modification 0678.

In summary, this Modification has been raised as a valid alternative solution to the one being proposed under Modification 0678.

Justification for Authority Direction

This Modification Proposal is recommended to be sent to the Authority for direction as it is likely to have a material effect on commercial activities relating to the shipping, transportation and supply of gas because, if implemented, it is likely to have a material impact on the allocation of charges across NTS networks Users.

Requested Next Steps

This Modification should be treated as an Alternative to Modification 0678. It should proceed as such under the same timetable as agreed with the Authority for Modification 0678 as far as practicable.

3 Why Change?

Drivers

- 3.1. The methodology which is currently in place for the calculation of Gas Transmission Transportation charges, and the methodology to recover TO and SO revenue through Entry and Exit charges, has been in place for a number of years. Whilst there have been some changes in the last ten years, the basic approach to calculating NTS Entry and Exit Capacity charges and the approach to revenue recovery arrangements have not substantially changed. What has been seen is change in the patterns of capacity booking behaviours, and the impact on the charges as a result due to the interactivity inherent within the methodology that were not anticipated. Additional regulatory drivers for changes to the charging framework are:
 - 3.1.1. The EU Tariff Code⁵;
 - 3.1.2. Ofgem's Gas Transmission Charging Review⁶ and decision on UNC0621 and its Alternatives⁷. In addressing the decision letter to reject UNC0621 and its Alternatives the Proposer is proposing changes outlined in this Modification and summarised in the comparison table provided on the JO website.
- 3.2. As a result of changing behaviours, such as increased uptake in short term zero-priced capacity, there is an increase in reliance on commodity charges to recover TO revenue. Zero priced capacity has arguably resulted in overbooking of capacity, surplus to User's requirements. The high TO commodity charges, driven largely by the zero priced capacity can also result in unstable and unpredictable charges. Other charges, such as the NTS Optional Commodity Charge (also referred to as "Shorthaul"), have also seen a significant increase in its use which has impacted on other charges in a way that was not originally envisaged.

Mapping Revenues

- 3.3. Within the collection of revenue there are some changes to the terminology used to assign the revenue for the purposes of ultimately calculating charges. These changes are required by the EU Tariff Code. This relates to mapping TO Revenue and SO Revenue to Transmission Services Revenue and Non-Transmission Services Revenue. This does not affect the actual allowed revenue National Grid will be required to recover through the charges.

⁵ http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L_.2017.072.01.0029.01.ENG&toc=OJ:L:2017:072:FULL

⁶ <https://www.ofgem.gov.uk/gas/transmission-networks/gas-transmission-charging-review>

⁷ <https://gasgov-mst-files.s3.eu-west-1.amazonaws.com/s3fs-public/ggf/page/2018-12/Ofgem%20Decision%20Letter%200621.pdf>

- 3.4. There are a number of targeted charges in the current methodology and it is necessary to consider which revenue they will contribute towards:
 - 3.4.1. The Distribution Network (DN) Pensions Deficit Charge and NTS Meter Maintenance Charge, under the EU Tariff Code (Article 4), do not fall into the specific criteria for Transmission Services. This Modification proposes that these will be classified as Non-Transmission Services charges thereby contributing towards Non-Transmission Services Revenue.
 - 3.4.2. The St. Fergus Compression charge will be a Non-Transmission Services charge.
 - 3.4.3. The methodologies to calculate these charges (DN Pensions Deficit, NTS Meter Maintenance and St. Fergus Compression) are not proposed to be reviewed at this time. Whilst these could be considered as either Transmission Services or Non-Transmission Services, providing it is approved by the National Regulatory Authority (NRA), it is proposed this is a pragmatic way to charge for these items.

Reference Price Methodology (RPM)

- 3.5. The current RPM (including the adjustments applied in order to calculate capacity charges) produces charges that are volatile and unpredictable. This causes challenges for investment decisions and in predicting operational costs for connected parties year on year and as such, is a key area to be addressed.
- 3.6. Through an assessment of RPMs⁸, the main Alternative considered from the current method was the CWD model. By design this approach is generally more predictable, less volatile and more stable in nature and is more suited to a system that is about use and revenue recovery associated to use rather than linked to investment (marginal pricing).
- 3.7. The proposed use of CWD in the RPM resolves this issue by narrowing the range of prices and as such making them more predictable. This makes the RPM more relevant to how the NTS is used and expected to be used. It would better suit the current and future expectations for the NTS and maximising its use (driven through market behaviour) rather than using an RPM built on the foundation of continued expansion whilst continuing to provide some locational diversity in charges through the use of locational capacity and the average distances applied under the CWD approach.
- 3.8. As a result of changing the RPM, any adjustments, discounts and other charges must be reviewed in order to avoid unintended consequences and to ensure that a clear impact assessment (including any Ofgem Impact Assessment) can be carried out on the total impact of these adjustments, discounts and other charges to NTS customers and to the end consumer.

⁸ See <https://www.gasgovernance.co.uk/ntscmf/subg1model>

- 3.9. This Proposal considers compliance with the EU Tariff Code which has a deadline to implement the changes of 31 May 2019. Price changes could apply from 01 October 2019 or as soon as possible after this date in line with a decision to implement, however, it is the recommendation of this Proposal that the earliest date at which they should apply in 01 October 2020.
- 3.10. This Proposal also seeks to establish a framework for review and update of key inputs to the newly established RPM which will further the objectives of the RPM.
- 3.11. This Proposal aims to simplify the charging methodology, limiting aspects of the methodology whereby some charges can materially impact other charges and also eliminating the influence between Transmission and Non-Transmission Services.

Forecasted Contracted Capacity (FCC)

- 3.12. The proposed changes to the charging regime may result in changes to commercial behaviours in the procurement of capacity rights. The proposal for a forecast of contractual capacity (FCC) will be a key input into the reference price calculation.
- 3.13. It is proposed that the FCC to be a forecast of capacity bookings at each Entry and Exit Point. The value will be determined in accordance with a methodology statement (the "FCC Methodology") that will be referenced in the UNC and will not form part of Section Y of the UNC.

The methodology is proposed to be linked to a forecast of GB demand on the NTS for the tariff year for which reference prices are being produced. It will also review the historical capacity bookings (where capacity has been allocated at a price greater than zero at each Entry and Exit Point, and forecast flow levels, to determine a value that will inform the proportion of capacity bookings for each specific Entry and Exit Point. The methodology will be discussed and developed as part of the workgroups and NTSCMF in line with the timetable established for Modification 0678. The FCC Methodology is not proposed to be incorporated into the UNC in order to maintain a high degree of flexibility and to ensure changes to it can be implemented in an efficient and timely manner.

- 3.14. It is proposed that the FCC Methodology is reviewed annually and updates considered in line with a methodology, and updated in the appropriate transportation charging statement and charging models. This review of FCC values will, at an appropriate point, take account of any behavioural changes in capacity procurement observed under the revised charging regime with the aim of aligning the FCC to actual bookings, in line with the methodology statement. At the same time the FCC is reviewed and updated, there will be an additional adjustment to the reserve prices in order to account for the anticipated under collection driven by the application of any discounts (e.g. interruptible and specific capacity discounts).
- 3.15. The FCC for each Entry Point and Exit Point will be determined ahead of each tariff year and communicated to industry as part of the publication of charges.

Multipliers

- 3.16. Adjustments or separate charges can be applied in the calculation of the Entry and Exit Capacity Reserve Prices. These can serve a number of functions such as to acknowledge any potential risk associated with the type of Entry or Exit Capacity, to facilitate the recovery of revenues where relevant or beneficial to do so, and to encourage behaviours along with ensuring National Grid fulfils any relevant obligations.
- 3.17. Multipliers are applied to the Reference Price to produce the Reserve Price. Under the EU Tariff code (Article 13), the Multipliers for Interconnection Point (IP) quarterly standard capacity products and for IP monthly standard capacity products should be no less than 1 and no more than 1.5. For IP daily standard capacity products and IP within-day standard capacity products, the Multipliers should be no less than 1 and no more than 3. For the IP daily standard capacity products and IP within-day standard capacity products, the multipliers may be less than 1 but higher than 0 or higher than 3, where duly justified.
- 3.18. Beyond 30 September 2020, or in line with the implementation of this Modification, Multipliers for IPs need to be consulted on each year (as per Article 28 of the EU Tariff code). Multipliers applicable to all Entry and Exit Points from implementation of this Modification are provided in the relevant part of section 5 (Reserve Prices produced from Reference Prices).

Discounts

- 3.19. The pricing of Interruptible (Entry) / Off-peak (Exit) capacity will change from the current pricing approach. It will be consistent with the EU Tariff Code Article 16 and applied to all points. The changes proposed permit an adjustment to the relevant firm entry or exit Reserve Price in the calculation of a non-zero Reserve Price and the calculation of that Reserve Price for interruptible products.
- 3.20. The adjustment applied will be proportional to the probability of interruption and will be forward looking based upon an expectation of interruption over the coming year. An adjustment factor ('A' factor) may also be applied to reflect the estimated economic value of the product which will be factored into the assessment. Together, the probability of interruption and the 'A' factor make up the adjustment to be applied to the Reserve Price of the equivalent standard firm capacity product. The interruptible adjustment applicable to all Entry and Exit Points from implementation of this Modification are provided in the relevant part of section 5 (Interruptible (Entry) and Off-peak (Exit) Capacity).
- 3.21. Within the EU Tariff Code there are requirements to apply further discounts for storage capacity, where that discount must be at least 50%. This minimum discount is specific to storage in order to avoid double charging and in recognition of the general contribution to system flexibility and security of supply of such infrastructure. An enduring storage discount value is proposed but it is recognised that EU Tariff Code requirements for the charging regime to be reviewed, as a whole, at least every 5 years.
- 3.22. Any specific 'site type' discounts contemplated by the EU Tariff Code (Article 9) are applied to the Reserve Price to produce a final Reserve Price for the particular Firm Entry or Exit Capacity product at that particular point. The adjustment for Entry Points and Exit Points will

be based on the values specified in the Transportation Statement. The specific capacity discount applicable to all Entry and Exit Storage Points from implementation of this Modification are provided in the relevant part of section 5 (Specific Capacity Discounts).

Revenue Recovery

3.23. The Proposal incorporates a mechanism to manage the consequence of under or over recovery of revenues from Transmission Services Capacity Charges. The approach advocated is a capacity based charge on an enduring basis.

3.24. From implementation the charging framework would be expected to move towards dependency on a capacity forecast and a significantly reduced revenue recovery charge that would be capacity based achieving 100% capacity basis for recovery of Transmission Services revenue.

3.24.1. The calculation of the capacity prices will, at the time of calculation, take into account the revenue shortfall from any discounts referred to in paragraphs 3.19 to 3.22 of Section 3) in order to adjust the reserve prices such that the amount forecast to be under collected as a result of these discounts is reduced.

3.24.2. The approach in 3.23 means that less revenue will be required to be collected from the Transmission Services Revenue Recovery charges than if it were not carried out.

NTS Optional Capacity charge

3.25. This proposal 0678G will introduce a new capacity based charge that discourages inefficient bypass of the NTS. The new NTS Optional Capacity charge is calculated by applying an equation which relates to the cost of providing pipeline capability to support a particular load size and distance travelled from a nominated NTS Entry Point to the particular NTS Exit Point to derive a unit cost in pence per kWh. The resultant cost from the equation is converted into a capacity cost by application of the site specific FCC and MNEPOR. The charge is then apportioned 50:50 between entry and exit and the Users opting to accept the charge commit to making payments equivalent to the cost of booking one year of capacity (at entry and exit) at the FCC level of the qualifying NTS Exit Point. The NTS Optional Capacity charge arrangements will, in the view of the Proposer, encourage greater use of the NTS by way of avoiding inefficient bypass (whether via onshore or offshore gas pipelines) and facilitate the delivery of gas to the GB market. It will also support the efficient flow of gas across all GB interconnection points.

Existing Contracts

3.26. Provisions will apply for Entry Capacity (for 01 October 2019 or from the effective date of this Modification, whichever is later) allocated up to 06 April 2017.

3.26.1. This are Existing Contracts, as outlined in Article 35 in EU Tariff Code where the “*contract or capacity booking concluded before the entry into force of the EU Tariff Code – 06 April 2017, such contracts or capacity bookings foresee no change in the levels of capacity and/or commodity based transmission tariffs except for indexation, if any*”.

3.26.2. The capacity procured and revenue expected to be recovered under these Existing Contracts impact the application of the CWD charging model (specifically when determining Reference Prices at Entry Points) and calculation of Transmission Services Revenue Recovery Charges.

Aspects of the GB Charging Regime where there are no proposals for change:

The following is a list of items for which changes are not being proposed at this time but could be the next steps in the evolution of the GB charging regime.

- Auction Structure – All timings for auctions will be as per prevailing terms (including any changes implemented to comply with CAM).
- Entry/Exit Split – No change is proposed to the current 50:50 split.
- Gas Year/Formula Year – the Formula Year (April to March) and Gas Year (October to September) will be retained.
- DN Pensions Deficit Charge – No change to the calculation or the application of the charge.
- St. Fergus Compression Charge – No change is proposed to the calculation or the application of the charge.
- NTS Metering Charge - No change is proposed to the calculation or the application of the charge
- Shared Supply Meter Point Administration Charges - No change is proposed to the calculation or the application of the charge
- Allocation Charges at Interconnectors - No change is proposed to the calculation or the application of the charge
- Categorisation of Entry and Exit Points – Maintain the link to the Licence for categorisation.
- Seasonal Factors – Not used in current methodology and propose not to introduce.
- Fixed Pricing – As per Modification 0611, Amendments to the firm capacity payable price at IPs.
- Allowed Revenue – No change as per the Licence.
- Principles and application of Interruptible – As per prevailing terms. In respect of IPs, the terms implemented pursuant to Modification 0500, EU Capacity Regulations - Capacity Allocation Mechanisms with Congestion Management Procedures.

4 Code Specific Matters

Reference Documents

There are summary documents available on each of the topics (mentioned in the solution section of the Modification Proposal) which have been discussed at NTSCMF and sub-groups related to the gas

charging review, which are available at: <http://www.gasgovernance.co.uk/ntscmf/subg1page> and <http://www.gasgovernance.co.uk/ntscmf/subg1model>.

Uniform Network Code (UNC) Section Y:

<https://www.gasgovernance.co.uk/TPD>

UNC European Interconnection Document (EID):

<http://www.gasgovernance.co.uk/EID>

EU Tariff Code:

http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L_.2017.072.01.0029.01.ENG&toc=OJ:L:2017:072:FULL

Implementation Document for the Network Code on Harmonised Transmission Tariff Structures for Gas (Second Edition)

https://www.entsog.eu/public/uploads/files/publications/Tariffs/2017/TAR1000_170928_2nd%20Implementation%20Document_Low-Res.pdf

Uniform Network Code (UNC) Section B:

<https://www.gasgovernance.co.uk/TPD>

NTS Transportation Statements:

<http://www.gasgovernance.co.uk/ntschargingstatements>

Customer and Stakeholder Objectives:

<http://www.gasgovernance.co.uk/ntscmf/060916>

Gas Transmission Charging Review (GTCR) and associated update letters:

<https://www.ofgem.gov.uk/gas/transmission-networks/gas-transmission-charging-review>

Knowledge/Skills

An understanding of the Section Y Part A within the UNC, NTS Transportation Statements, the EID within the UNC, TPD Section B within the UNC, TPD Section S within the UNC, the EU Tariff code, GTCR documentation and the customer / stakeholder objectives developed within NTSCMF would be beneficial.

Definitions

Table 1 gives a definition of terms used in this Modification.

Table 1: Definitions used in the Modification

Term (Abbreviation)	Description
Capacity Weighted Distance (CWD) Model	<p>The CWD approach fundamentally requires three main inputs:</p> <ul style="list-style-type: none"> • A revenue value is required, which will be the target revenue required to be recovered from Transmission Services; • A distance matrix for the average connecting distances on the NTS; and • A capacity value for each Entry and Exit point that will be the Forecasted Contracted Capacity (FCC) (which is mentioned later in this section). <p>The CWD model produces the Transmission Services Reference Prices and with additional adjustments produces the Transmission Services Reserve Prices.</p>
Effective Date	<p>The later of:</p> <ul style="list-style-type: none"> • the last day of the month in which Ofgem issues its letter directing implementation of this Proposal; and • 31 May 2019 [is there a lead time for this?]
Existing Contracts (ECs) (for the purposes of this Modification)	<p>Arrangements relating to Long Term Entry capacity allocated before 06 April 2017 (Entry into Force of EU Tariff Code)</p>
Forecasted Contracted Capacity (FCC)	<p>The capacity input to the RPM that will be used in the Transmission Services capacity charges calculation that will be determined via a CWD methodology. An FCC value is required for every Entry and Exit point.</p>
Long Run Marginal Costs (LRMC) Model	<p>The current underlying RPM used in the calculation of the Entry and Exit Capacity Prices. Whilst there are different approaches in Entry and Exit as to how secondary adjustments are applied, the underlying LRMC principles are there in both. The LRMC approach is an investment focused methodology where the intention is to have strong locational signals to facilitate decision making. More information is available in TPD Section Y of the UNC.</p>
Multipliers	<p>The factor applied to the respective proportion (runtime) of the Reference Price in order to calculate the Reserve Price for non-yearly standard capacity product</p>
Network Distances (for the purposes of modelling in the	<p>A matrix of distances used in the RPM that are the pipeline</p>

RPM)	distances on the NTS.
Non-Transmission Services	The regulated services other than transmission services and other than services regulated by Regulation (EU) No 312/2014 that are provided by the transmission system operator;
Non-Transmission Services Revenue	The part of the allowed or target revenue which is recovered by non-transmission tariffs
NTS Optional Capacity Charge	Price for a capacity product for firm capacity applicable at qualifying entry and exit points in accordance with the OCC Methodology
Reference Price	Price for a capacity product for firm capacity with a duration of one year, which is applicable at entry and exit points and which is used to set capacity based transmission tariffs. This will be produced in p/kWh/a (pence per kWh per annum).
Reference Price Methodology (RPM)	<p>The methodology applied to the part of the transmission service revenue to be recovered from capacity based transmission tariffs with the aim of deriving Reference Prices. Applied to all entry and exit points in a system.</p> <p>The RPM therefore is the framework to spread certain costs / revenues (relevant to the methodology in place) to the Entry and Exit points and thereby on to network users.</p>
Reserve Price	<p>Reserve Price for Yearly standard capacity = the Reference Price</p> <p>Reserve Price for Non- yearly standard capacity is calculated by applying any Multipliers (if applicable).</p> <p>This will be produced in p/kWh/d (pence per kWh per day).</p>
Target Revenue	This is the revenue required to be recovered from a particular set of charges.
Transmission Services	The regulated services that are provided by the transmission system operator within the entry-exit system for the purpose of transmission.
Transmission Services Revenue	The part of the allowed or target revenue which is recovered by transmission tariffs.
Transportation Statement	The Transportation Statement containing the Gas Transmission Transportation Charges

5 Solution

This Modification Proposal seeks to amend Transportation Principle Document (TPD) Section Y, Part A (The Gas Transmission Transportation Charging Methodology) of the UNC, by changing the methodology for the calculation of gas transmission transportation charges. Changes to TPD Sections B (System Use

and Capacity), E (Daily Quantities, Imbalances and Reconciliation), G (Supply Points), S (Invoicing and Payment), the Transition Document and European Interconnection Document (EID) Section B (Capacity) are also required.

Mapping of the revenue to Transmission Services revenue and Non-Transmission Services revenue (see paras 3.3 and 3.4 in section 3)

Transmission Services Charges

It is proposed that Transmission Services charges will be collected via:

- Transmission Services Capacity charges made up of;
 - Transmission Entry Capacity charges (including NTS Transmission Services Entry Capacity Retention Charge);
 - Transmission Exit Capacity charges;
 - NTS Optional Capacity charges;
- Transmission Services Entry Revenue Recovery charges;
- Transmission Services Exit Revenue Recovery charges
- and
- NTS Transmission Services Entry Charge Rebate.

Non-Transmission Services Charges

It is proposed that Non-Transmission Services charges will be collected via:

- General Non-Transmission Services Entry and Exit Charges;
- St Fergus Compression Charges;
- NTS Metering Charges;
- DN Pensions Deficit charges;
- Shared Supply Meter Point Administration charges; and
- Allocation Charges at Interconnectors

Transmission Services Charges

Reference Price Methodology (see paragraphs 3.5 to 3.11 in section 3)

It is proposed that a CWD approach is used in the RPM.

One RPM will be used for the calculation of Reference Prices for all Entry Points and Exit Points on the system. The RPM produces Entry and Exit Capacity Reference Prices for the applicable gas year which in turn through the relevant adjustments and calculation steps will determine the Entry and Exit Capacity Reserve Prices.

Final Reference Prices

It is proposed that the calculation of the final Reference Price for a given Entry Point or Exit point cannot be zero. If application of the CWD methodology derives a zero price, or negative price, as a result of the FCC value or the Existing Contracts (EC) influencing the CWD calculation (see below), then the Reference Price to be used for such points will be based upon the price for the closest (in terms of Weighted Average Distance as opposed to geographically) non-zero priced Entry Point (for an Entry Point) or the closest (in terms of Weighted Average Distance as opposed to geographically) non-zero priced Exit Point (for an Exit Point).

The price for the relevant Entry Point or Exit Point will equal to the Reference Price for the closest (in terms of Weighted Average Distance as opposed to geographically) relevant Entry Point or (respectively) Exit Point adjusted in line with pro-rata relationship between the two Weighted Average Distances.

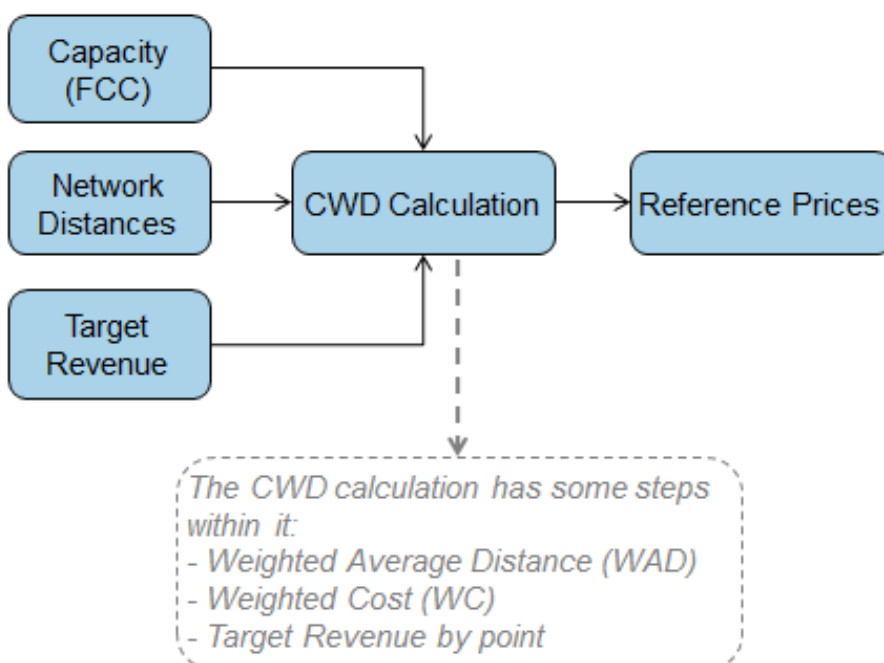
Calculations within the CWD Model

Proposed CWD Model for calculating Entry and Exit Capacity Base Reference Prices:

The proposed CWD approach fundamentally requires three main inputs (see Figure 1):

- Target Entry or Exit Transmission Services Revenue - Revenue which is Allowed Revenue net of known Existing Contracts (EC) revenue.
- Network Distances – derived from a distance matrix for the average connecting distances on the NTS
- Capacity (FCC) - FCC (by point) net of Existing Contracts (EC) capacity booked to recover the target Entry or Exit Transmission Services revenue. It should be noted that whilst TAR NC permits Existing Contracts at both Entry and Exit, there are no eligible Exit Existing Contracts.

Figure 1: Proposed CWD Model for calculation of Entry and Exit Capacity Base Reference Prices



Key steps in the CWD calculations, see Table 2.

Table 2: Key steps in the CWD calculations

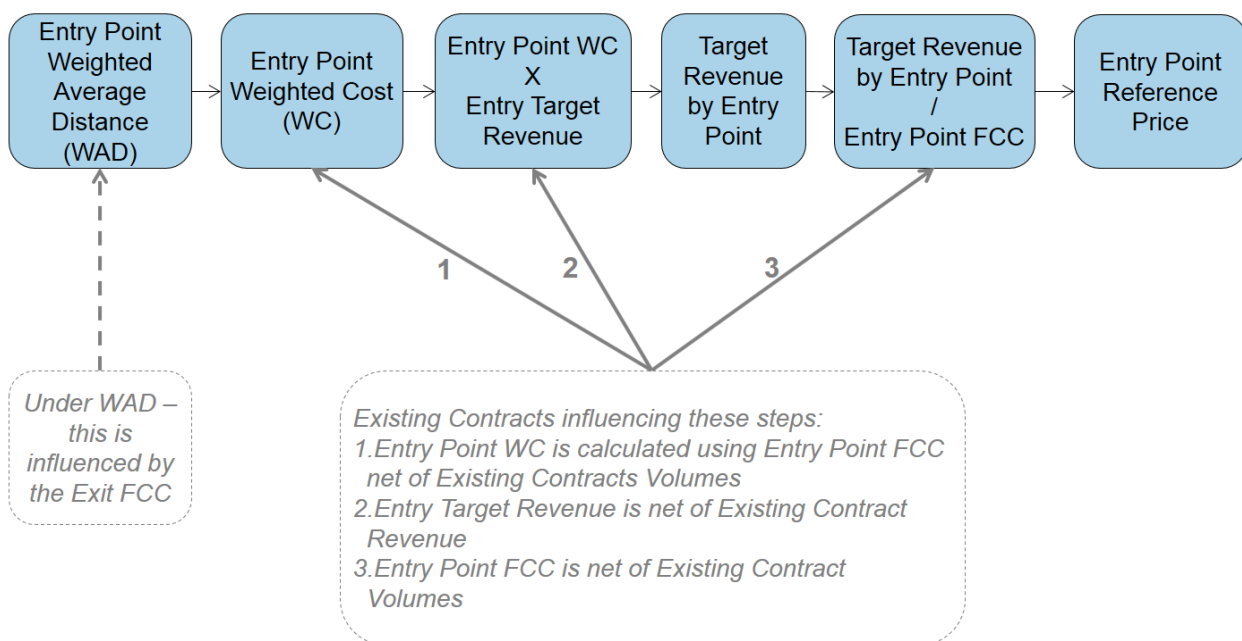
	Entry Capacity Calculation	Exit Capacity Calculation
Weighted Average Distance (WAD)	$(\text{Sumproduct Exit Point FCC} \times \text{Distance to Entry Point}) / \text{Sum Exit Point FCC}$	$(\text{Sumproduct Entry Point FCC}^{\#} \times \text{Distance to Exit Point}) / \text{Sum Entry Point FCC}^{\#}$
Weighted Cost (WC)	$\text{Entry Point FCC}^* \times \text{WAD} / (\text{Sumproduct Entry Point FCC}^* \times \text{WAD})$	$\text{Exit Point FCC} \times \text{WAD} / (\text{Sumproduct Exit Point FCC} \times \text{WAD})$
Target Revenue by point (TRP)	Entry Target Revenue x WC	Exit Target Revenue x WC
Reference Price (RefP)	Entry TRP / Entry Point FCC*	Exit TRP / Exit Point FCC

#Entry Point FCC – this is Gross Entry Point FCC (not reduced by capacity associated with Existing Contracts)

*Entry Point FCC – this is the Entry Point FCC net of capacity associated with Existing Contracts.

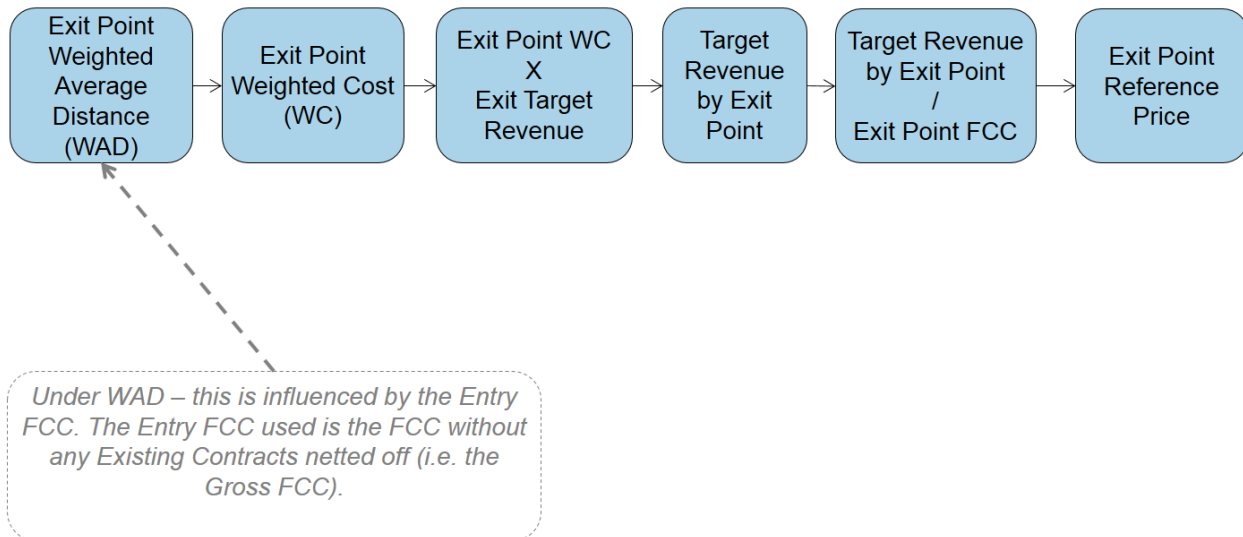
Entry Point Reference Prices are calculated in the following steps in the CWD model, see figure 2

Figure 2: Entry Point Reference Prices calculation model



Exit Point Reference Prices are calculated in the following steps in the CWD model, see Figure 3:

Figure 3: Exit Point Reference Prices calculation model



Forecasted Contracted Capacity (FCC) (see paragraphs 3.12 and 3.13 in section 3)

It is proposed that the FCC for an Entry Point or an Exit Point will be equal to a forecasted value determined by National Grid, in line with a new methodology statement (the ‘FCC Methodology’). The methodology to determine a capacity forecast will be developed and shared with industry by National Grid shortly and the intention is that it be transparent and to keep the approach flexible to develop the best possible forecast to be applied to the relevant year to facilitate calculation of the capacity charges.. It is proposed that ahead of each Gas Year National Grid will determine the FCC value for each Entry Point and Exit Point and will be communicated to industry as part of the publication of charges.

It is proposed that where National Grid believes it necessary, it will (in consultation with Users and DNO Users) review the FCC Methodology. If the FCC Methodology is revised, National Grid will notify industry of any revisions as part of the publication of charges.

It is proposed that any such revision will take effect from the date specified unless Ofgem (upon application by any Shipper or Distribution Network Operator within one month of the notice) directs that the change is not made as per its powers under Standard Special Condition A11(18) of National Grid’s Licence.

Reserve Prices produced from Reference Prices (see paragraphs 3.14 to 3.16 in Section 3)

It is proposed that Reserve Prices for capacity will be produced in p/kWh/d. The Reserve Prices will be calculated each year based on the latest available set of inputs and once published, these will be the Reserve Prices applicable for the relevant gas year regardless of when the capacity product is procured.

For example, the price payable for capacity procured in 2020 for a period in October 2025 will be the Reserve Price determined for gas year 2025/26 plus, where applicable, any premium payable. This premium will be equal to either:

- The difference between the allocated price and Reserve Price in the relevant auction when the capacity was initially contracted for (‘*auction premium*’); or

- The amount specified in respect of entry capacity allocated via a PARCA Application as described in TPD B1.14 and the Entry Capacity Release Methodology Statement ('PARCA premium').

It is proposed that the Reserve Price for Firm capacity at an Entry Point or an Exit Point is determined by application of any applicable Multipliers to the relevant Reference Price.

It is proposed that Multipliers:

- Shall not be zero for any capacity type or product;
- Are not to be used for the purposes of managing revenue recovery; and
- Shall be calculated on an ex-ante basis ahead of the applicable year.

It is proposed that the Multiplier applied to the Reference Prices for all Entry Point and Exit Points in order to determine the Reserve Price will be 1 (one).

Interruptible (Entry) and Off-peak (Exit) Capacity (see paragraphs 3.17 to 3.18 in Section 3)

It is proposed that the Reserve Price for Interruptible Capacity at an Entry Point and Off-peak Capacity at an Exit Point is derived by application of an ex-ante discount to the Reserve Prices for the corresponding Firm capacity products (the day ahead firm price at the relevant Entry Point and the daily firm price at the relevant Exit Point).

It is proposed that when determining the level of discount applied in respect of Interruptible and Off-peak Capacity from 01 October 2019 or implementation date of this Modification should it be after, the likelihood of interruption and the estimated economic value of the Interruptible or Off-peak capacity products are used to determine a discount value (as per Article 16 of EU Regulation 2017/460). It is further proposed to adopt a 'banding approach' for the period commencing 01 October 2019 or implementation date of this Modification should it be after and for subsequent years, such that the proposed discount value will be rounded up to the nearest 10%:

It is proposed that for the period commencing 01 October 2019, or the implementation date of this Modification should it be after, the discount applied in respect of Interruptible and Off-peak Capacity:

- At Entry Points is 10%; and
- At Exit Points is 10%.

Specific Capacity Discounts (see paragraphs 3.19 to 3.22 in section 3)

It is proposed that Specific Capacity Discounts will be applied to the Reserve Prices in respect of Firm and Interruptible/Off-peak Capacity at the Points detailed below.

It is proposed that in respect of **storage sites**, (locations where the type of Entry point/Offtake is designated as a 'Storage Site' in National Grid's Licence (Special Condition 5F Table 4B for Entry Points, and Special Condition 5G Table 8 for Exit Points) the applicable Specific Capacity Discount for a given gas year will be equal to 50%.

It is proposed that in respect of **Liquefied Natural Gas (LNG) sites**, (locations where the type of Entry point is designated as a 'LNG Importation Terminal' in National Grid's Licence (Special Condition 5F

Table 4B)) for the period commencing 01 October 2019 or implementation date of this Modification should it be later, the applicable Specific Capacity Discount for a given gas year will be equal to 0%.

It is proposed that no other Specific Capacity Discounts are applied.

Additional Calculation Step under CWD for Reference / Reserve Prices (see paragraph 3.22 in section 3)

It is proposed that the following step is applicable for Capacity Reference Prices on an enduring basis. Once the Reserve Prices have been calculated taking into account all the required Multipliers, Specific Capacity Discounts and Interruptible / Off-peak adjustment there will be an under recovery driven by the levels of discounts or adjustments (e.g. Interruptible / Off-peak adjustment and Specific Capacity Discounts). This anticipated under recovery will result in the need for an adjustment to be applied to the CWD calculation in order to recalculate Reference Prices, and therefore Reserve Prices, such that the under recovery is estimated to be zero or close to zero. This will be applied to the Entry and Exit Capacity calculations to recalculate the Entry and Exit Capacity Reference Prices and Reserve Prices for all Entry and Exit points and in doing so will minimise the size of the Transmission Services Entry and Exit Revenue Recovery charges.

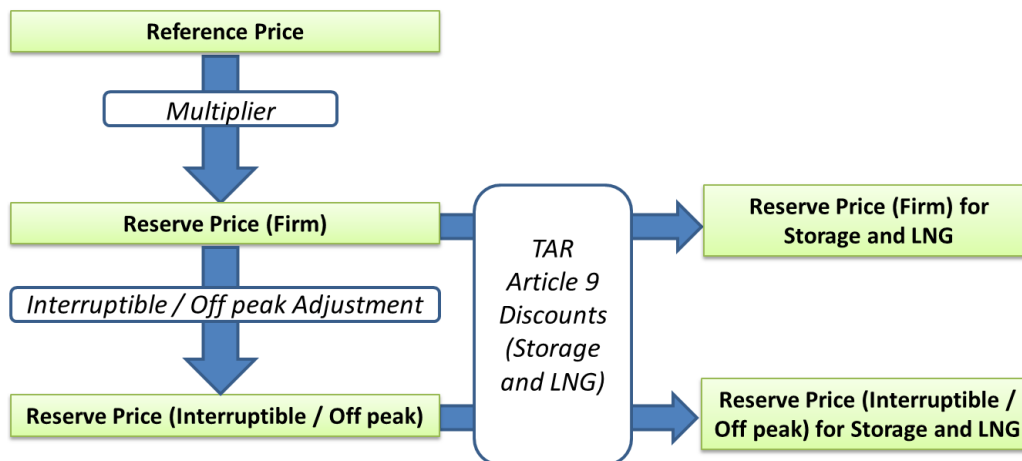
Minimum Reserve Price

It is proposed that Reserve Prices for Firm and Interruptible / Off-peak capacity (determined following the application of any relevant Multipliers, Specific Capacity Discounts, or Interruptible / Off-peak adjustments) will be subject to a minimum value (collar) of 0.0001p/kWh/d.

Summary of Reserve Price Derivation

The following diagram (see Figure 4) summarises the proposed approach to the derivation of Reserve Prices (from the applicable Reference Price) for both Firm and Interruptible / Off-peak Capacity products (including Capacity at Storage and LNG sites).

Figure 4: Reserve Price derivation



Capacity Step Prices

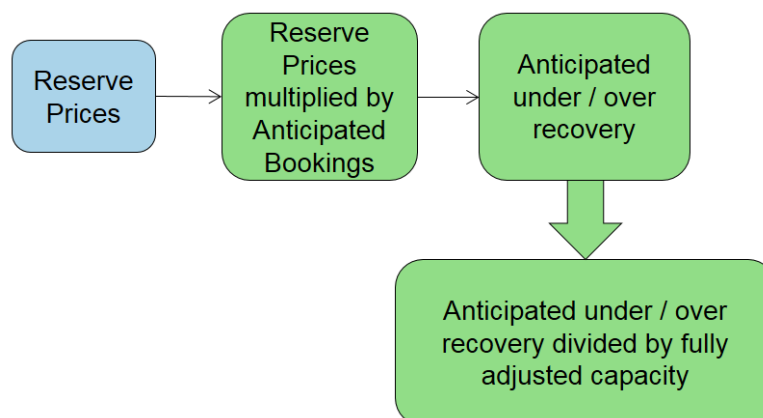
For the purposes of capacity step prices used in the QSEC Auction, these will be an additional 5% of the applicable Reserve Price or 0.0001 p/kWh/Day, whichever is the greatest, per step.

Transmission Services Revenue Recovery Charges (see paragraph 3.21 in section 3)

It is proposed that where a proportion of revenue could be under/over recovered (i.e. compared to the target Transmission Services revenues) as a consequence of application of Reserve Prices applicable for the following gas year, a revenue recovery mechanism is applied.

The Transmission Services Revenue Recovery charges (Transmission Services Entry Revenue Recovery charge and Transmission Services Exit Revenue Recovery charge) will be calculated after the Reserve Prices have been determined and will be calculated as follows (see Figure 5) for Entry and Exit in the same way:

Figure 5: Transmission Services Revenue Recovery Mechanism



It is proposed that the 'Anticipated Bookings' value will be based on National Grid's forecast of capacity bookings and therefore used to forecast the anticipated under or over recovery. It is proposed that the Transmission Services Revenue Recovery charge rate may be adjusted at any point within the gas year.

For the avoidance of doubt, such change would be subject to the existing notice requirements for variation of Transportation Charge rates.

It is proposed that the Transmission Services revenue recovery mechanism is capacity based and applied as additional capacity charges to all fully adjusted capacity except Existing Contracts for Storage. The Transmission Services Entry and Exit revenue recovery charges for this period will be produced in p/kWh/d. For the avoidance of doubt, any Entry Capacity (except Existing Contracts for Storage) or Exit Capacity booked for the applicable year (irrespective of when this capacity was procured from National Grid) would be subject to Revenue Recovery charges.

It is proposed that in respect of adjustments to available Entry Capacity at Storage, where the adjustment is executed:

- Up to and including 05 April 2017, the Capacity will be treated as Entry Capacity procured via Existing Contracts; or
- Subsequent to 05 April 2017, the Capacity will not be treated as Entry Capacity procured via Existing Contracts.

NTS Optional Capacity Charge (see paragraph 3.25 in Section 3)

Introduction

The new method will provide for alternate entry and exit capacity charges at applicable entry and exit system points, replacing the NTS Optional Commodity Rate. These charges will be derived from applying updated cost data from National Grid to an amended NTS Optional Commodity Charge equation (similar to the Option Two proposed in NGG discussion document GCD11⁹) to obtain a relationship between the cost of providing pipeline capability to support a particular load size and distance travelled from a nominated NTS Entry Point to the particular NTS Exit Point (OCC rate given in p/kWh), known as the OCC Route.

The results of the cost function are then converted into a capacity charge by reference to the FCC and MNEPOR. Consistent with the approach advocated for recovery of Transmission Services revenue, the resultant cost in p/kWh/day is then split 50:50 to apply at the relevant NTS Entry Point and NTS Exit Point.

Users of a specific OCC route (the combination of a qualifying NTS Exit Point and nominated NTS Entry Point will, in aggregate, incur an Annual OCC Fee equivalent to the cost of building and maintaining a bypass pipeline, independent of the quantity of gas flowed from the NTS Entry Point to the NTS Exit Point (to be charged monthly or annually).

Methodology

Stage One – create the updated cost function (OCC rate)

The OCC rate (p/kWh) is created using the following steps:

⁹ <https://www.nationalgridgas.com/sites/gas/files/documents/42342-NTS%20GCD11%20-%20Optional%20Commodity%20Charge%20Change%20V1.3.pdf>

- a) Use a pipeline portfolio that, through using flow rates and distances, allocates a specific pipe size from the portfolio to a certain distance and flow rate combination;
- b) Produce a cost for each distance/flow rate combination by using a fixed element, relating only to the pipe diameter (this can be thought of as the "connection cost" to the NTS and includes the costs such as Calorimetry, Pig Traps, Pressure Reduction) and a distance related (cost per km) element which applies to a range of pipe diameters (using updated price control based costs from National Grid for the larger diameter pipes);
- c) Produce an annual capital cost based on the applicable annuity factor (AF) (provided by National Grid and published within the Transportation Statement);
- d) Produce commoditised unit costs (in terms of p/kWh) by dividing by the assumed annual quantity (AQ) (which is derived from the specific site MNEPOR);
- e) Measure the average p/kWh using a comparison between the costs at 0km and 50km.

The OCC rate formula is calculated based on flow rates and pipeline distances. The form of the equation is as follows:

$$p/kWh = A \times M^{E1} \times D + B \times M^{E2}$$

where the applicable parameters for the equation, A, E1, B and E2, will be published on an annual basis within the Transportation Statement and the variable inputs (M and D) into the equation are as follows:

D is the direct distance of the site or non-National Grid NTS Pipeline to the elected Entry Terminal as the crow flies.

M is the Maximum NTS Exit Point Offtake Rate (MNEPOR) at the site, converted into kWh/day.

^ means 'to the power of..'

The applicable parameters for the 2019/20 Gas Year are as follows:

$$A = 897.85$$

$$B = 765.09$$

$$E1 = -0.79$$

$$E2 = -0.7$$

So the resultant OCC rate formula is:

$$OCC (p/kWh) = [897.85 \times (M)^{-0.79}] \times D + 765.09 \times (M)^{-0.7}$$

Stage Two – convert cost function into a capacity charge

The OCC formula produces a p/kWh based on an assumed peak flow per day. As the MNEPOR value is a maximum flow rate per day value it can be used to convert the OCC formula to a daily pipeline cost. This can then be divided by the FCC to create a capacity rate as per the following:

Daily pipeline cost (p/day) by application of the following:

$$\text{Daily Pipeline cost} = \text{OCC rate} \times \text{MNEPOR}$$

NTS Optional Capacity rate (p/kWh/day) by application of the following:

$$\text{NTS Optional Capacity rate} = \text{Daily Pipeline cost} / \text{FCC}$$

where FCC is the Forecasted Contracted Capacity for the relevant NTS Exit Point (as determined by National Grid and published within the NTS Gas Transportation Charges Statement and the relevant charging model).

Stage Three – apportion the charge between entry and exit

Consistent with the approach advocated for recovery of Transmission Services revenue, the resultant cost in p/kWh/day is then split 50:50 to apply at the relevant NTS Entry Point and NTS Exit Point.

$$\text{NTS Exit OCC rate} = \text{NTS Optional Capacity rate} / 2$$

$$\text{NTS Entry OCC rate} = \text{NTS Optional Capacity rate} / 2$$

As Users will be booking NTS Entry and NTS Exit capacity through the usual methods, in order to arrive at the above level of charges, a rebate (or charge¹⁰) will need to be calculated and provide for difference between the actual NTS Entry and NTS Exit capacity charges and the revised charges as above. This will be calculated and charges adjusted on a monthly basis.

It is proposed that the cost inputs going forwards will be updated for the relevant charging period via indexation using publicly published CPI figures¹¹ i.e. for October 2020 the cost inputs will be updated using CPI from the 12 month period ending 31 March 2020. For each subsequent 12 month period the cost inputs will be updated using CPI from the previous 12 month period ending 31 March.

Example 1 Derivation of the NTS OCC charge

The following example shows how the charge would be calculated and applied:

Entry Point X

Exit Point Y

MNEPOR = 40,000,000 kWh/d

FCC = 35,000,000 kWh/d

D = 10 km

Stage one:

$$\begin{aligned} \text{OCC rate} &= [897.85 * (M)^{-0.79} * D + 765.09 * (M)^{-0.7}] \\ &= [0.0125] \text{ p/kWh} \end{aligned}$$

Stage two:

$$\text{Daily pipeline cost (£)} = [0.0125] * 40000000 / 100 = £5005.09$$

$$\text{Capacity shorthaul rate (p/kWh/d)} = £5005.09 / 35000000 * 100 = 0.0143 \text{ p/kWh/d}$$

Stage three:

¹⁰ A charge may apply for example where the User's WAPen is lower than the NTS Entry OCC rate by virtue of the value of Existing Contracts.

¹¹ For details, see <https://www.ons.gov.uk/economy/inflationandpriceindices/timeseries/l55o/mm23>

NTS Exit OCC rate = 0.0072 p/kWh/d

NTS Entry OCC rate = 0.0072 p/kWh/d

Application of OCC

The NTS Optional Capacity Reserve Charges will apply to an Applicable Quantity (Q) calculated on each gas day:

$Q = \text{MIN} \{ \text{CAPen}, \text{CAPex}, \text{FLOWen}, \text{FLOWex} \}$ where

CAPen = User's net firm entry capacity entitlement on the day at the applicable ASEP,

CAPex = User's net firm exit capacity entitlement on the day at the applicable exit point,

FLOWen = User's gas flow entry allocation on the day at the applicable ASEP, and

FLOWex = User's gas flow exit allocation on the day at the applicable exit point.

For an applicable entry and exit point combination, the NTS Optional Capacity Reserve Charges to be levied on the Applicable Quantity are calculated as follows:

NTS Optional Entry Capacity Charge = $Q \times \text{NTS Entry OCC Rate}$

NTS Optional Exit Capacity Charge = $\text{OCCex} \times \text{NTS Exit OCC Rate}$

where OCCex is the OCC exit capacity volume calculated as follows

$\text{OCCex} = (\text{CAPex} - \text{FLOWex}) + Q$

Example 2 Application of the OCC

From Example 1 where User books CAPex 35,000,000 kWh/d at the Exit Point, CAPen 20,000,000 kWh/d at the Entry Point and flows FLOWex 30,000,000 kWh/d:

NTS OCC Entry Charge = $20,000,000 \times 0.0072 = \text{£}1,440$

NTS OCC Exit Charge = $((35,000,000 - 30,000,000) + 20,000,000) \times 0.0072 = \text{£}2,160$

Non-Transmission Services charges and Transmission Services Revenue Recovery charges will not be levied on the Applicable Quantity (Q) or OCC Exit Capacity volume (OCCex). Justification for the exclusion of Non-Transmission charge can be found in the note prepared by WWA as part of the UNC 0621 development process.¹² In relation to Transmission Services Revenue Recovery the application of this charge would not be cost reflective of the costs associated with building and maintaining a bypass pipeline.

¹² <https://gasgov-mst-files.s3.eu-west-1.amazonaws.com/s3fs-public/ggf/book/2018-02/SO%20derivationv3%20NW.pdf>

Normal Transmission Services charges or Non-Transmission Services charges will apply, as appropriate, to those capacities or gas flows not covered by the Applicable Quantity (Q) or the OCC Exit Capacity volume (OCCex):

WAPen = the shipper's weighted average price of relevant firm entry capacity entitlements held on the day;

WAPex = the shipper's weighted average price of relevant firm exit capacity entitlements held on the day;

Where CAPen > Q, WAPen will apply to (CAPen – Q) units of the User's entry capacity entitlement.

Where CAPex > Q, WAPex will apply to (CAPex – OCCex) units of the User's exit capacity entitlement.

Where FLOWen > Q, Non-Transmission Services entry charges will apply to (FLOWen – Q) units of the User's entry allocation.

Where FLOWex > Q, Non-Transmission Services exit charges will apply to (FLOWex – Q) units of the User's exit allocation.

Example 3 Charges at the non-OCC Rate

Using the scenario from Example 2:

Entry Charges Non-Transmission (non-OCC) = 30,000,000 – 20,000,000 = 10,000,000 kWh/d x Non-transmission commodity rate

Exit Capacity Charges (non-OCC) = (35,000,000- 25,000,000) x WAPex

Exit Charges Non-Transmission (non-OCC) = 30,000,000 – 20,000,000 = 10,000,000 kWh/d x Non-transmission commodity rate

Note: The reason why Exit is treated differently to Entry is to reflect the capacity nature of the service and the contribution made to the cost of building and maintaining a pipeline as provided for via the Annual NTS OCC Fee. Where, for example, a User books Exit Capacity on an annual basis at the FCC rate, and flows are below the booked level, the capacity which is not used is charged at the OCC rate. This is consistent with the concept of operating a bypass pipeline and aligns the charges generated from the methodology with the volume of capacity booked. For the avoidance of doubt, where gas is supplied from an alternative Entry Point (not the nominated OCC Entry Point) it is charged at the non-OCC Exit Capacity rate.

The same approach cannot be applied at entry on the basis that Entry Capacity can be used to supply multiple offtakes.

Annual NTS OCC Fee

Users operating under the NTS Optional Capacity charge will commit to paying charges which in aggregate are equal to the total annual costs of capacity at FCC levels, for the relevant NTS Exit Point, at both entry and exit. Where the level of NTS Exit Capacity bookings and/or the level of NTS Entry Capacity bookings are below FCC levels, then an additional fee will be levied on the User, so that:

$$\text{Annual NTS Optional Capacity Fee} = (\text{FCC} \times \text{NTS Exit OCC Rate} + \text{FCC} \times \text{NTS Entry OCC Rate}) \times 365 - (\sum \text{OCC Entry Charges} + \sum \text{OCC Exit Charges})$$

Where $\sum \text{OCC Entry Charges}$ = sum of all Users OCC Entry Charges for the OCC Route

And $\sum \text{OCC Exit Charges}$ = sum of all Users OCC Exit Charges for the OCC Route

The Annual NTS Optional Capacity Fee is apportioned over each month of the 12 month period and charged, where applicable, at the end of each month across the OCC Route Users (or annually).

Where there is more than one User on an OCC Route the Annual NTS Optional Capacity Fee will be apportioned as follows:

$$\text{User Annual NTS Optional Capacity Fee} = \frac{\sum \text{User Q}}{\sum Q} \text{ (could be annual or monthly)}$$

Example A: Annual NTS OCC Fee: A Single User

From Example 1, where the annual Applicable Quantity (Q) is on average 25,000,000 kWh/d.

$$\text{Annual OCC paid by User} = (0.0072 * 25,000,000 + 0.0072 * 25,000,000) * 365 = \text{£1,314,000}$$

$$\text{Annual NTS Optional Capacity Fee} = \text{£1,839,600} - \text{£1,314,000} = \text{£525,600}$$

The Annual NTS Optional Capacity Fee will be apportioned over each month of the 12 month period and charged, where applicable, at the end of each month (or end of each year).

Example B: Annual NTS OCC Fee: Two Users

From Example 1, where User A's Annual Applicable Quantity (Q) is on average 15,000,000 kWh/d and User B Annual Applicable Quantity (Q) is on average 10,000,000 kWh/d

$$\text{Annual Optional Capacity Fee (to be paid by User A and User B)} = \text{£1,839,600} - \text{£1,314,000} = \text{£525,600}$$

$$\text{User A Optional Capacity Fee} = 15/25 * 525,600 = \text{£315,360}$$

$$\text{User B Optional Capacity Fee} = 10/25 * 525,600 = \text{£210,240}$$

As above, each Users' Annual NTS Optional Capacity Fee will be apportioned over each month of the 12 month period and charged, where applicable, at the end of each month (or end of each year).

Where the (\sum OCC Entry Charges + \sum OCC Exit Charges) > (FCC x NTS Exit OCC Rate + FCC x NTS Entry OCC Rate) x 365, Users will not be charged an Annual NTS OCC Fee.

NTS Optional Capacity charges will not apply where either the Entry or Exit Point is a gas storage facility or where the Exit Point is a NTS/DNO offtake. An Exit Point can be associated with only one entry point/ASEP for the purpose of attracting NTS Optional Capacity Charges.

National Grid NTS will notify relevant shipper Users of the NTS Optional Capacity rate and the date from which they are to apply for the OCC route, as they would for the normal set of transportation charges. The NTS Optional Capacity charge will be set for a period of 12 months "the OCC Period", with the commencement of the period being on 01 October each and every year. In addition, National Grid NTS will notify the shipper Users of the Annual Optional Capacity Fee which will apply for the OCC route. For the avoidance of doubt, where there is more than one User applying for an NTS Optional Capacity Rate for a particular OCC route, the Annual Optional Capacity Fee notified to each individual User will be the aggregate Fee calculated on the basis of the applicable FCC at the qualifying NTS Exit Point. On acceptance of the Annual Optional Capacity Fee, Users enter into a commitment to pay the Fee over the duration of the OCC Period.

A new OCC Period can commence following the expiry of an OCC Period, subject to Users making a commitment to pay the Annual Optional Capacity Fee over the duration of the OCC Period.

NTS Optional Capacity charge rates will be quoted or notified to an accuracy of 4 (four) decimal places and will be accompanied by the value of each variable in the relevant formula described above. The Annual Optional Capacity Fee will be notified in pounds and pence.

Transition Arrangements for NTS Optional Capacity charge

A transition run-in period will be the 150-day period date before the date on which charges from the new proposals take effect. A commencement date of 01 October 2020 is recommended, from which new charges should apply.

At the commencement of the transition run-in period, National Grid will:

- (a) provide a written statement to each shipper, that has Optional Commodity Charge arrangements in place, that details the NTS Optional Capacity charges to apply to the optional charge arrangements. The shipper will be offered a one-off opportunity to terminate the optional charge arrangements for specified optional charge arrangements, in which case National Grid will cancel the arrangements accordingly on behalf of the shipper. Shippers will have 1 month to respond to the offer to terminate; and
- (b) Notify shippers holding optional charge supply point offers of the NTS Optional Capacity charges that will apply from the commencement date and that the terms of the offers will be deemed to be amended accordingly from that date.

Except where a User elects to terminate an optional charge arrangement in accordance with subparagraph (a) above, Users will be required to use the usual supply point administration processes to amend or cancel optional charge arrangements.

NTS Transmission Services Entry Charge Rebate

The charge mechanism reduces any Transmission Services entry over recovery. The process may be triggered at the end of the formula year. It is proposed that this will be applied as a Transmission Services entry capacity credit.

NTS Transmission Services Entry Capacity Retention Charge

NTS Entry Capacity Substitution is where National Grid moves unsold non-incremental Obligated Entry Capacity from one (donor) ASEP to meet the demand for incremental Obligated Entry Capacity at a different (recipient) ASEP. It is proposed that where a User elects to exclude capacity at potential donor ASEPs from being treated as substitutable capacity without having to buy and be allocated the capacity it is required to take out a “retainer”.

The retainer is valid for one year, covering all QSEC auctions (including ad-hoc auctions) held in this period. National Grid will exclude the relevant quantity from the substitution process, but the retainer will not create any rights to the User to be allocated or to use the capacity. The retainer will not prevent Users (including the User taking out the retainer) from buying that capacity at the ASEP in question in the period covered by the retainer.

The retainer is subject to a one-off charge which is payable via an ad hoc invoice raised within 2 months of the QSEC auction allocations being confirmed. If a User wishes to protect capacity for more than one year then a further retainer must be obtained each year and a charge will be payable each year for which a retainer is taken out.

Where any capacity covered by a retainer is allocated, a refund of the retention fee may be made; for example, for a retainer taken out for Gas Year 2013/14 in January 2010, a refund can be triggered by an allocation at the relevant ASEP made during a QSEC auction in 2010, 2011 and 2012, and an AMSEC auction in 2013 and 2014.

NTS Entry Capacity Retention Charges, in regard to non-incremental Obligated Entry Capacity, are calculated based on the minimal capacity charge rate of 0.0001 pence per kWh per day applying over a time period of 32 quarters; this equates to 0.2922 p/kWh of Entry Capacity retained.

NTS Entry Capacity Retention Charges and refunds in regard to non-incremental Obligated Entry Capacity are treated as Transmission Services.

Non-Transmission Services Charging

It is proposed that revenue due for collection via General Non-Transmission Services Entry and Exit Charges will be equal to the Non-Transmission Services revenue minus the DN Pensions Charges, NTS Meter Maintenance Charges, St. Fergus Compressor Charges, Shared Supply Meter Point Administration Charges and Allocation Charges at Interconnectors.

The revenue due for collection via General Non-Transmission Services Entry and Exit Charges will be recovered through a flow based charge as a flat unit price for all Entry Points and Exit Points. It is proposed that the St. Fergus Compressor Charges and General Non-Transmission Services Entry and Exit Charge rates may be adjusted at any point within the gas year.

It is proposed that this is applied to all flows excluding Storage flows unless it is flowed as “own use” gas at the Storage point.

The General Non-Transmission Services charge will be produced in p/kWh.

Treatment of under/over recovery (K) – after each formula year

It is proposed that a separate under or over revenue recovery (otherwise known as the “K” value) will be calculated for Transmission Services and Non-Transmission Services for the formula year. This will be different to the TO and SO “K” values however the principle of reconciling Transmission Entry and Exit revenues separately will remain.

It is proposed that the approach and calculation will be specified in the UNC, to be approved by Ofgem. In addition to Transmission and Non-Transmission being reconciled this Modification also proposes to have reconciliation between Entry and Exit under Transmission Services.

Transmission Services Revenue:

It is proposed to maintain 50/50 split between Entry and Exit (for the purposes of allocating revenues to the charges to recover Transmission Services Entry and Exit Revenues). It is also proposed to maintain the reconciliation of Entry and Exit for Transmission Services, as per the current approach for TO charges. This would continue to mean that Entry and Exit, under Transmission Services, when reconciled would not result in Entry impacting Exit or vice versa.

The applicable years Transmission Service Revenue will be split 50:50 between revenue to collect on Entry Capacity charges and revenue to collect on Exit Capacity charges. This value will then be added to any under/over recovery (Transmission Services K value) which was calculated in y-2 (two years ago) and split between Entry and Exit in the correct proportion, to make the applicable revenue which will be used in the CWD model to calculate the capacity charges.

Non-Transmission Services Revenue:

It is proposed that all those charges in respect of Non-Transmission Services shall contribute towards Non-Transmission Services revenue recovery. All charges are set on an ex-ante basis.

It is proposed that any under or over recovery attributed to the charges other than the Non-Transmission Services Entry and Exit Charge shall not be subject to reconciliation with any K value (Non-Transmission Services K value) adjusting the Non-Transmission Services Revenue recovery charge. Non-Transmission Services revenue charge will be added to the Non-Transmission Services K value which was calculated in y-2 (two years ago) which will be used to calculate the applicable years Non-Transmission Services Revenue which will be used for calculation of the Non-Transmission Services Charges.

Transportation Charges: Information Publication

It is proposed that information in respect of Transportation Charges will be published in accordance with table 3 below.

Table 3: Publication dates for Transportation Charges

	Data Item	Publication	Issued by*:
Transmission Services	Forecasted Contracted Capacity	Charging Model	01 August
	CWD Distances	Charging Model	01 August
	Capacity Reference Prices	Transportation Statement	01 August
	Multipliers	Transportation Statement	01 August
	Capacity Reserve Prices	Transportation Statement	01 August
	Interruptible Adjustment (Entry)	Transportation Statement	01 August
	Interruptible Adjustment (Exit)	Transportation Statement	01 August
	Specific Capacity Discounts (Storage)	Transportation Statement	01 August
	Specific Capacity Discounts (LNG)	Transportation Statement	01 August
	Revenue Recovery Charge (Entry)	Transportation Statement	01 August
	Revenue Recovery Charge (Exit)	Transportation Statement	01 August
	NTS Optional Capacity charge formula parameters	Transportation Statement	01 August
Non-Transmission Services	Non-Transmission Services Charges	Transportation Statement	01 August
	DN Pension Deficit Charges	Transportation Statement	01 August
	NTS Metering Charges	Transportation Statement	01 August
	St Fergus Compression Charges	Transportation Statement	01 August
	SSMP Administration Charges	Transportation Statement	01 August
	Allocation Charges at Interconnectors	Transportation Statement	01 August

*Issued by means the date by which the listed information will be consolidated and published in the relevant publication. The information in this table will be published and made available in steps via the relevant notice and supporting material which may be before the date listed. The publication dates may also be changed depending on the implementation of this Modification.

6 Impacts & Other Considerations

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

N/A

Consumer Impacts

There will be impact on different consumer groups but the allowed revenue collected by National Grid NTS will not change.

Cross Code Impacts

None

EU Code Impacts

EU Tariff Code compliance is considered as part of this Proposal.

Central Systems Impacts

There will be impacts on Gemini and UK Link invoicing systems. These impacts are being assessed. The CDSP, Xoserve, has been consulted on all stages of development of this project and National Grid will continue to ensure this is the case.

7 Relevant Objectives

Table 4: Impact of the Modification on the Relevant Objectives

Impact of the Modification on the Relevant Objectives:	
Relevant Objective	Identified impact
a) Efficient and economic operation of the pipe-line system.	Positive
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.	Positive
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.	Positive
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

Demonstration of how the Relevant Objectives are furthered:

a) Efficient and economic operation of the pipe-line system.

The whole charging package contained in this Modification 0678G has been designed to encourage fair and efficient access to the pipe-line system. The expected more stable and predictable charges compared with what is generated from the current methodology should encourage more stable and predictable use of the system by shippers - something that should in turn help National Grid generate accurate capacity usage forecasts for setting charges in future. The removal of free capacity products is an important aspect of the proposal as is the inclusion of an NTS Optional Capacity charge (to replace the Optional Commodity Charge). Without an NTS Optional Capacity charge there will likely be an increased incentive for the use of some system bypass pipelines because some of the charges being generated by CWD produce counter-intuitive outcomes – high exit charges for large sites located close to entry points (the same argument could be made had the reference price methodology been Postage Stamp.) By improving the predictability of the use of the system, National Grid should be better placed

and better prepared to operate it in a more efficient manner. By encouraging efficient use of the system by Users (e.g. by avoiding inefficient bypass) National Grid will ensure that its operations can be economically optimised so that costs are kept as low as possible on a pence / kWh flowed basis.

At the same time, this Modification 0678G recognises that the current level of Optional Commodity Charge discounts applied to Transmission Owner (TO) charging has become distorted in recent years by its structural link to the rising level of TO Commodity charges. The Modification is therefore designed to promote efficiency and economy in the use of the NTS pipeline system by increasing the costs paid by Users shipping along routes which qualify for the NTS Optional Capacity charge in line with the costs for building and maintaining a bypass pipeline of the same distance. Where Users/customers are able to choose between the costs of using the NTS or building and maintaining a bypass pipeline, where the cost of using the NTS are a reasonable proxy for private ownership, the outcome will be efficient. A cost based Optional charging methodology provides a robust, enduring basis for dis-incentivising inefficient NTS bypass.

c) Efficient discharge of the licensee's obligations.

The proposed changes to TPD Section B and EID Section B (where applicable) support the implementation of the new charging methodology and arrangements. Standard Special Condition A5(5) of the NTS Licence sets out the relevant methodology objectives and the Proposer believes that these objectives are better facilitated for the reasons detailed below in Table 5 ('Impact of the Modification on the Relevant Charging Methodology Objectives').

d) Securing of effective competition between relevant shippers;

The proposed changes to TPD Section B and EID Section B (where applicable) support the implementation of the new charging methodology and arrangements. To the extent that the application of a new Reference Price Methodology is expected to provide a more stable and predictable price setting regime, Shippers will have a greater level of confidence in their forecasts of prospective use of network costs and therefore set their own service costs more accurately (potentially with a lower risk margin) thereby enhancing effective competition.

The NTS Optional Capacity charge solution will allow shippers to compete more effectively at proximate offtakes, including power stations, without having to build their own (inefficient) by-pass pipelines. It will also facilitate gas flows across Interconnection Points, encourage gas trading and help to attract gas to the GB market. By ensuring that the NTS Optional Capacity charges applied on nominated routes are set in a manner reflective of the costs of building and maintain a bypass pipeline, cross-subsidies between NTS OCC Users and non-NTS OCC Users will be eliminated. As such competition will be duly secured.

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.

The proposed changes to TPD Section B and EID Section B (where applicable) support the implementation of the new charging methodology and arrangements including those elements required to comply with the EU Tariff Code. The decision to reject UNC Modification 0621 and its Alternatives highlighted three areas of compliance that needed to be addressed (Interim Contracts, Transition Period and Shorthaul). This Modification proposes changes that will address these. In order to provide a compliant proposal to address these areas, the Proposer is proposing:

- Not to propose the creation of Interim Contracts;
- Not to use a transition period for the introduction of the methodology changes; and

- The NTS Optional Capacity charge solution is consistent with Ofgem’s Decision Letter in respect of EU Tariff code compliance in that charges are wholly capacity-based.

Table 5: Impact of the Modification on the Relevant Charging Methodology Objectives

Impact of the Modification on the Relevant Charging Methodology Objectives:	
Relevant Objective	Identified impact
a) Save in so far as paragraphs (aa) or (d) apply, that compliance with the charging methodology results in charges which reflect the costs incurred by the licensee in its transportation business;	Positive
aa) That, in so far as prices in respect of transportation arrangements are established by auction, either: (i) no reserve price is applied, or (ii) that reserve price is set at a level - (I) best calculated to promote efficiency and avoid undue preference in the supply of transportation services; and (II) best calculated to promote competition between gas suppliers and between gas shippers;	Positive
b) That, so far as is consistent with sub-paragraph (a), the charging methodology properly takes account of developments in the transportation business;	Positive
c) That, so far as is consistent with sub-paragraphs (a) and (b), compliance with the charging methodology facilitates effective competition between gas shippers and between gas suppliers; and	Positive
d) That the charging methodology reflects any Alternative arrangements put in place in accordance with a determination made by the Secretary of State under paragraph 2A(a) of Standard Special Condition A27 (Disposal of Assets).	None
e) 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 proposal does not conflict with:

- (i) Paragraphs 8, 9, 10 and 11 of Standard Condition 4B of the Transporter’s Licence; or
 - (ii) Paragraphs 2, 2A and 3 of Standard Special Condition A4 of the Transporter’s Licence;
- as the charges will be changed at the required times and to the required notice periods.

Demonstration of how the Relevant Objectives are furthered:

- a) Save in so far as paragraphs (aa) or (d) apply, that compliance with the charging methodology results in charges which reflect the costs incurred by the licensee in its transportation business;**

The inclusion of a workable NTS Optional Capacity charge solution is critical to enhancing the cost-reflectivity of the methodology. CWD would produce counter-intuitive capacity charges for some combinations of entry and exit points, e.g. high entry and exit charges when the exit point is in close

proximity to the entry point. In particular, as the derivation of the NTS Optional Capacity charge is based on the cost of National Grid building and maintaining a bypass pipeline of an equivalent distance, Users of the NTS Optional Capacity charge will pay cost reflective charges. Further, the annual indexation of the Charge, based on CPI will ensure that the Charge is updated, maintaining cost reflectivity. The use of CPI is consistent with Ofgem's RIIO-2 Framework Decision¹³ where it states: "*An accurate measure of inflation is important to ensure an accurate price control settlement. RPI is upwardly biased and has lost its credibility as an accurate measure of inflation*"

- aa) That, in so far as prices in respect of transportation arrangements are established by auction, either:**
- (i) no reserve price is applied, or**
 - (ii) that reserve price is set at a level -**
 - (I) best calculated to promote efficiency and avoid undue preference in the supply of transportation services; and**
 - (II) best calculated to promote competition between gas suppliers and between gas shippers; and**
- c) That, so far as is consistent with sub-paragraphs (a) and (b), compliance with the charging methodology facilitates effective competition between gas shippers and between gas suppliers**

The Proposer believes that the proposed utilisation of a new Reference Price Methodology which re-distributes National Grid's costs on a geographical basis, weighted by capacity will enhance cost reflectivity and competition between gas suppliers and between gas shippers when compared to the current application of a Long Run Marginal Cost Methodology (LRMC). The proposed model is better suited to the current and expected future usage of the NTS and the current model is more suitable for an expanding network requiring an investment-based RPM.

The CWD methodology generates charges which will result in a number of customers building private pipelines to bypass the NTS. This is due to the reasons identified in Charging Objective (a) above. Where a cost reflective NTS Optional Capacity charge is established, bypass pipelines are less likely to be built, minimising the unit costs of transportation for all Users of the NTS while eliminating cross-subsidies. In this case, competition is better facilitated.

- b) That, so far as is consistent with sub-paragraph (a), the charging methodology properly takes account of developments in the transportation business;**

The update to the Transmission Services methodology proposal takes into account developments which have taken place in the transportation business, in particular that the network is no longer expanding, however, the challenges of operating the system are becoming more acute. Where it is the case that gas supplies from non-UK sources are required to satisfy demand, as is becoming increasing the case, it is essential that transportation charges are cost reflective for offtakes close to entry points. Inefficient NTS bypasses and/or inflated transportation charges could result in supplies being diverted to alternative markets, or gas prices being set at artificially high levels.

¹³ https://www.ofgem.gov.uk/system/files/docs/2018/07/riio-2_july_decision_document_final_300718.pdf#page62

e) 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.

The EU Tariff Code compliance is taken into account in this Modification proposal. Accordingly, implementation of this Proposal would ensure that the GB arrangements are compliant with the EU Tariff Code. The decision to reject UNC Modification 0621 and its Alternatives highlighted three areas of compliance that needed to be addressed (Interim Contracts, Transition Period and 'Shorthaul'). This Modification proposes changes that will address these. In order to provide a compliant proposal to address these areas, the Proposer is proposing:

- Not to propose the creation of Interim Contracts;
- Not to use a transition period for the introduction of the methodology changes; and
- To establish a cost reflective NTS Optional Capacity charge.

Please see also the comparison table between UNC Modification Proposal 0621 (which was rejected by Ofgem) and this UNC Modification Proposal (0678G) located here:

<http://www.gasgovernance.co.uk/0678/>

Additional considerations

Consistency with the Ofgem Electricity TCR principles

Ofgem has set out three principles to guide their work in the Electricity Targeted Charging Review. It would be reasonable to assume that the same principles will apply in its consideration of any wholesale changes to the gas transmission charging regime. To this end, the Proposer recommends that this proposal 0678G is consistent with these principles, as follows:

1) Reducing harmful distortions

The replacement of the TO commodity charge with a capacity-based charging regime is consistent with EU TAR and ensures a fairer distribution of costs across Users and customers. A capacity-based approach reduces any distortions caused by excessive residual charges, however, a revenue allocation RPM, such as CWD, generates counterintuitive prices and distorted pricing signals, particularly at Exit Points located in close proximity to Entry Points. In such cases, distorted economic signals will result in the construction of private pipelines to the disadvantage of the broad GB customer base, through; the imposition of higher unit costs for NTS transportation; possible diversion of gas supplies to competing markets where access charges are lower; or inflated gas prices, as a result of higher marginal costs of supply. A cost-reflective OCC ensures that those customers able to construct private pipelines will be presented with non-distorted NTS access prices leading to the most efficient outcomes for all GB customers. In the case of this proposal, an OCC which is reflective of costs for building and maintaining private pipelines, the current levels of "cross subsidisation" will be extinguished, removing a critical barrier to completion

2) Fairness

The proposal results in a fairer allocation of network charges, recognising that the CWD methodology does create prices which do not accurately reflect costs of transporting gas from an entry point to an exit point. Customers which are able to contract for gas supplies directly from a specified entry point (being of significant size) and are located in close proximity to an entry point are unfairly charged for theoretical supplies from all entry points. A cost reflective OCC will ensure those customers pay a charge

representative of the costs of transporting gas to the offtake while at the same time affording benefits to the wider GB customer base, a social benefit not factored into the OCC cost function.

3) Proportionality and practical considerations

Overall the proposal is straightforward to implement and will have minimal impacts on central or User systems, however, it should be understood that market processes, in particular contracting for gas to be supplied to large offtakes is a process which occurs months in advance of the Gas Year. Typically, gas supply contracts of such magnitude are at least one year in length and subject to bespoke tender processes. It is essential that NTS transportation charges are known in advance of these tender processes so that contracts are able to be correctly priced and risks appropriately shared. In order for the market to respond to and accommodate any changes to the underlying transmission charging regime, sufficient notice must be provided prior to the commencement of the customer contracting processes. Ideally, the implementation of any significant changes to charges, in particular capacity-related charges, should take place at the beginning of a Gas Year.

8 Implementation

There are no implementation timescales proposed for this Modification as implementation should be in line with an Ofgem decision and direction. The Proposer recommends that charges derived from the implementation of this proposal 0678G should take effect no earlier than 01 October 2020 and/or that normal notice periods for advising industry of transmission prices should be applied (e.g. 150 days' notice of indicative charges).

The Proposer considers that the proposal can be implemented prior to 01 October 2020 to ensure compliance with relevant legislation as soon as possible and that the date from which resultant transmission charges take effect can then follow.

A 01 October start date for new charges to take effect and sufficient notice of new charges is necessary to enable shippers and traders to efficiently plan and establish contractual arrangements with their counterparties without undue regulatory risk. It is the view of the Proposer that a 01 October 2019 charge effective date will be extremely difficult to achieve given the additional governance tasks likely to be undertaken by Ofgem following submission of the Final Workgroup Report, i.e. a possible Regulatory Impact Assessment and the consultation required by Article 26 of the EU Tariff Code.

9 Legal Text

Text Commentary

To be provided later

Text

To be provided later

10 Recommendations

Proposer's Recommendation

The Proposer recommends that this Modification should be treated as an Alternative to Modification 0678 and therefore it should proceed as such under the same timetable as that agreed with the Authority for Modification 0678 as far as practicable.