None

At what stage is this **UNC Workgroup Report** document in the process? UNC 0667: Modification 02 Workgroup Report Inclusion and Amendment of Entry **Draft Modification** Report Incremental Capacity Release NPV **Final Modification** test in UNC Purpose of Modification: This Modification seeks to insert the Net Present Value test required for Non-IP Entry Incremental Capacity Release into UNC, and amend the mechanics of the test to ensure that it works effectively with the current GB system. The Workgroup recommends that this Modification should be considered a material change and not subject to self-governance The Panel will consider this Workgroup Report on 18 April 2019. The Panel will consider the recommendations and determine the appropriate next steps. High Impact: **Shippers** Medium Impact: National Grid NTS Low Impact:

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@gasgo o.uk 288 210 ees ok Gas
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288 210 ees ok Gas
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1 Summary

What

An issue has been discovered by the Proposer with the Incremental Capacity Release NPV test that impacts any potential PARCA applicant's ability to pass the NPV test, and subsequently reserve or allocate incremental capacity.

For Incremental Capacity to be reserved and allocated as part of the Planning and Advanced Reservation of Capacity Agreement (PARCA) process, a series of net present value (NPV) tests are required to be passed (one at the end of PARCA Phase 1 using indicative prices and an additional test at the end of PARCA Phase 2 using updated prices). The intention of the NPV test is to ensure user commitment and to provide sufficient assurances that the costs of any incremental investment associated with PARCA Works are recovered. The PARCA applicant is deemed to have passed the NPV test if the test signals 50% of the Estimated Project Value.

South Hook Gas Company Ltd. ("South Hook Gas") is the applicant under an existing PARCA Phase 1 process in respect of incremental entry capacity at the Milford Haven Aggregated System Entry Point (ASEP) as an integral part of an upstream project investment. South Hook Gas understands that this PARCA application is the first to be processed in respect of incremental NTS entry capacity.

The methodology for the NPV test is currently defined in the Entry Capacity Release Methodology (ECRM) Statement rather than the UNC. South Hook Gas believes the current NPV methodology is unclear and unfit for purpose in the context of a PARCA application in respect of incremental entry capacity.

Therefore, this Modification Proposal seeks firstly to insert the NPV test into the UNC and secondly to make the changes set out in this proposed Modification to the mechanics of the test to resolve significant structural issues that could currently be reducing the number of PARCA entry capacity applications and therefore disincentivising future investment in natural gas supply projects.

Why

There is a lack of clarity over the extent of the signalling obligation under the NPV test, which creates uncertainties as to the required threshold for compliance. As noted above, this is in part attributable to the potential move from a fixed to a floating price regime and a change to the charging methodology. The prescribed process for the NPV test appears to require the PARCA applicant to signal excessive amounts of unsold capacity (as well as incremental capacity) at the relevant Entry Point, due to the unconstrained nature of the network and the resultant general reliance on short term capacity products. The required compliance threshold is so onerous that maintenance of the present approach may have the unintended consequences referenced above in respect of PARCA applications and project investment. By way of example, South Hook Gas would not be able to pass the PARCA Phase 1 NPV test without signalling incremental capacity, and any required unsold capacity, at the Milford Haven ASEP for 20 quarters. South Hook Gas believes the NPV test threshold in its current form is disproportionate to the commitment required for the PARCA Works (and therefore does not achieve the intended objectives of the test), excessively onerous and could be a disincentive for investment in GB.

The South Hook Gas PARCA application was submitted on 24 April 2018 and the Phase 1 PARCA Works are forecast to complete in October 2018. Therefore a timely solution is required for the identified

issues, while allowing appropriate space for discussion and consultion in order to provide the certainty needed for long term investment.

If the approach currently prescribed is adopted in this case, with South Hook Gas acquiring all unsold and incremental capacity over the required period, there will be a number of consequences, for which there does not seem to be any economic or technical justification, including:

- 1. South Hook Gas having to signal more capacity that it can physically use (including once the incremental capacity is delivered by NGG);
- 2. South Hook Gas signalling capacity that would lead to revenues to NGG well in excess of the Estimated Project Value;
- 3. Dragon LNG not being able to purchase long term capacity in those quarters (only the 95GWh/day that is withheld for short term could be available) once capacity is allocated; and
- 4. A commitment to higher revenues than necessary being made because of changes to both Estimated Project Value and prices immediately prior to the second NPV test, if there is a restriction on changing the incremental capacity profile.

The current ECRM methodology is not clear on whether there is an opportunity to reprofile the incremental capacity ahead of the second NPV test (end of PARCA phase 2). Furthermore if the applicant is deemed to have failed the second NPV test (i.e. by signalling less than 50% of Estimated Project Value) then NGG can terminate the PARCA application, resulting in the PARCA termination fee having to be paid by the applicant and/or potential disruption and delay in the context of a larger project.

As noted above, this Modification Proposal seeks to insert the NPV test into the UNC. The NPV test is currently defined in the ECRM Statement, which is not subject to the UNC code governance process. Therefore, if the NPV test is not inserted into the UNC, then it cannot be modified without a full review of the methodology statements. The UNC would be the more appropriate location for the NPV test to allow for a clear statement of the NPV test as amended and the provision of a more efficient review and refinement process to address both the issues noted above and future required changes, ensuring the test remains fit for purpose.

One key objective of the PARCA framework is to provide certainty for investment by allowing both the PARCA applicant and NGG to progress their projects in parallel. However, allowing the estimated project cost (currently Estimated Project Value from the LRMC methodology) to change unpredictably between the two NPV tests could undermine this objective by significantly changing the revenue required from the applicant.

How

This Modification Proposal 0667 seeks to insert the NPV test into the UNC TPD, Section B to allow it to be modified via the UNC governance process, and subsequently change the mechanics to allow for:

• An "Incremental Capacity Premium" to be applied should the estimated reference price not generate sufficient revenues for a positive NPV test outcome. This concept is based on the IP Mandatory Minimum Premium that is part of the Incremental Capacity Release at Interconnection Points within UNC, European Interconnection Document, Section E. The Incremental Capacity Premium is an additional quantity that is added to the applicable payable price, calculated to be the minimum value required to allow the NPV test to be passed in the case where the allocation of all offered incremental

capacity at the estimated reference price would not generate sufficient revenues for a positive NPV test outcome.

- For example, if capacity totalling £50m on a NPV basis is required to be signalled but only £30m of Incremental Capacity sales are available using the estimated reserve price, then the additional £20m required would be divided by the Incremental Capacity denominator to create the Incremental Capacity Premium in p/kWh/d, which is then applied on top of the reserve price.
- Incremental Capacity must be signalled in a minimum of 4 separate years over the 8 year PARCA period. This is to guarantee there is a sustained incremental signal to ensure efficient investment in the system and is aligned with the principles for Exit Incremental Capacity Release and IP Incremental Capacity Release. For the avoidance of doubt this can be a minimum of 1 quarter in each of the 4 separate years.
- Submission of an incremental capacity profile ahead of the second NPV test at the end
 of PARCA Phase 2 as per Phase 1 NPV test, to either avoid unnecessary termination
 of the PARCA application or excessive revenue being collected. This also provides an
 opportunity for the Incremental Capacity Premium to be recalculated. The Incremental
 Capacity Premium is fixed at this point and paid in addition to any capacity charges as
 they become due.
- The estimated project cost to be initially set at the first NPV test (prior to reservation at the end of PARCA Phase 1). At the time of the second NPV Test (prior to allocation at the end of PARCA Phase 2) the estimated project cost will be adjusted in line with the Retail Price Index (RPI). This is inline with NGG Gas Transporter Licence which currently uses RPI.

2 Governance

Justification for Authority Direction

Panel determined that this Modification is likely to have a material effect as it seeks to change the User Commitment rules associated with the release of Entry Incremental Capacity, and therefore could have an impact on the commercial activities relating to investment in the NTS.

Modification 0667 will therefore follow Authority Direction procedures.

Requested Next Steps

This Modification Proposal should:

- be considered a material change and not subject to self-governance; and
- be issued to consultation

The Workgroup agreed with the Panel determination on Authority Direction for the reasons set out above and agree this Modification is sufficiently developed to be issued to consultation.

3 Why Change?

Background to Incremental Capacity NPV Test

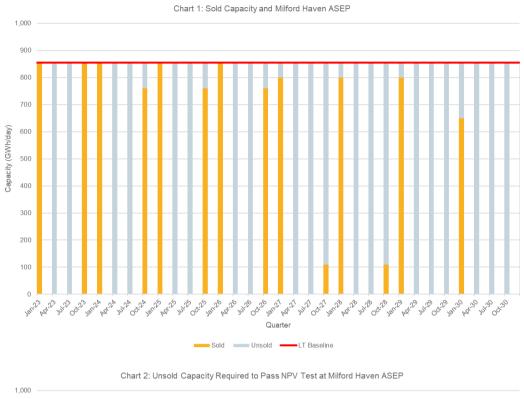
Incremental Capacity is additional capacity that is made available above the prevailing level of Obligated Entry Capacity. For the Incremental Capacity to be reserved and subsequently allocated, a NPV test needs to be passed to ensure user commitment and provide sufficient assurances that the costs of any incremental investment associated with PARCA Works are recovered. The revenues required to be recovered are from the Estimated Project Costs, which are calculated through the Long Run Marginal Cost methodology, and 50% of this must be collected for the NPV test to be passed. The mechanics of the NPV test are included within the ECRM statement¹.

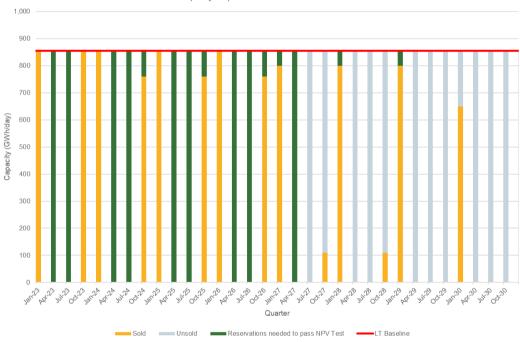
The ECRM was first issued in 2002 and included the current NPV test. Since then there has not been a comprehensive review of the NPV test² (other than project costs and price steps which have been changed alongside charging methodology developments). The NPV test was implemented when there was an expectation that capacity would be acquired on a long-term basis, via the QSEC auctions, allowing for incremental capacity to be signalled. Since 2002, capacity booking behaviour has moved almost entirely towards the purchase of short term products which are discounted (up to 100% for within day and interruptible products). This has caused difficulties for incremental capacity to be signalled within the current methodology.

Chart 1 below shows the amount of sold and unsold capacity that is available at Milford Haven within the Long Term auctions at the current time and incremental capacity would only be available without purchasing any unsold capacity in 5 of the 32 quarters (i.e. where sold amounts are equal to LT baselines). Chart 2 further below indicates, in green, the amount of unsold capacity that would need to be signalled for incremental capacity to be signalled using the Price Step 7 Estimated Project Value of £140m. At the highest current price step for Milford Haven (which would be required in this example) the unsold capacity would cost £211m with the £70m cost of incremental capacity on top of this. Unsold capacity that is purchased does not contribute to the NPV test despite being priced as such (noting that this capacity would also be subject to the same price step as incremental capacity). This would result in total costs of £281m which is significantly higher than the required incremental revenue signal (NPV test) of £70m, and even the total Estimated Project Value of £140m. In addition, it would also result in one of the parties at the ASEP holding all the Long-Term capacity rights at the ASEP for the single purpose of passing the NPV test meaning other participants would be unable to purchase Long-Term products at the ASEP. It is also worth noting that 855GWh/day unsold capacity required to be purchased is more technical capacity than either of the current individual Milford Haven Entry Terminals can utilise, even when the Incremental Capacity is brought on-line.

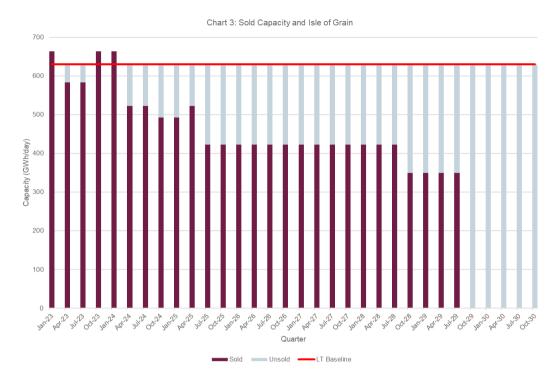
www.nationalgrid.com/uk/gas/charging-and-methodologies/methodologies

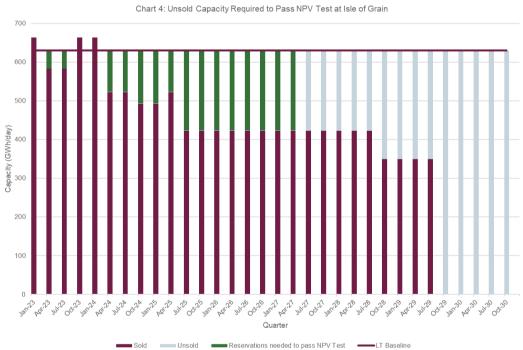
² Entry Capacity Release Methodology v4, See Document Revision History Section on p.2 <u>www.nationalgrid.com/sites/default/files/documents/Entry%20Capacity%20Release%20Methodology</u> %20Statement%20%28Approved%29%20v4.0%20-%20Effective%2031%20July%202017.pdf





The issue is not exclusive to the Milford Haven ASEP and occurs across many of the Entry Points on the network. Chart 3 and Chart 4 show similar issues for the Isle of Grain Entry Point. Using the same scenarios (Estimated Project Value from Price Step 7 and using the highest price step for Isle of Grain) the combined cost of unsold capacity (£21.8m) and incremental capacity (£17.5m) is greater than the total Estimated Project Value (£33.5m).





Both LNG terminals are in the top five Entry Points in terms of Long Term bookings vs total baseline available³, which can be seen in Table 1 below. Given the difficulties to pass the test at both LNG Entry Points it is fair to assume that most of other Entry Points on the network would face the same issue if attempting to signal Incremental Entry Capacity.

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³ From 01 January 2023 to 31 December 2030.

Table 1: Long Term bookings vs total baseline available (01 January 2023 to 31 December 2030)

Entry Point	Sold Capacity (Gwh/day)	Total Available (GWh/day)	Percentage Purchased
Cheshire	16,886	17,366	97%
Hole House Farm	5,673	9,491	60%
Isle of Grain	12,605	22,390	56%
Milford Haven	8,970	30,400	30%
Caythorpe	810	2,880	28%
Easington	8,927	45,029	20%
Bacton	2,986	15,539	19%
Fleetwood	3,107	20,800	15%
Teesside	1,178	14,243	8%
Garton	980	13,440	7%
Hatfield Moor (Storage)	44	810	5%
Hornsea	206	7,459	3%
Barrow	128	10,880	1%
St. Fergus	151	53,462	0%
Theddlethorpe	0	19,542	0%
Glenmavis	0	3,168	0%
Partington	0	6,880	0%
Avonmouth	0	5,738	0%
Dynevor Arms	0	1,568	0%
Hatfield Moor (Onshore)	0	810	0%
Wytch Farm	0	106	0%
Burton Point	0	2,352	0%
Barton Stacey	0	5,523	0%
Canonbie	0	6,400	0%

Why the NPV test should be put into UNC

The NPV test is currently defined in the ECRM, which is not subject to the UNC governance process. Therefore, if the NPV test is not inserted into the UNC, it cannot be modified without a full review of the methodology statements. The UNC would be the more appropriate location for the NPV test to allow for a clear statement of the NPV test as amended and the provision of a more efficient review and refinement process to address both the issues noted above and any future required changes, ensuring the test remains fit for purpose. Given the current review of the charging regime (UNC Modification 0621) and the requirement for future methodologies to be consulted at least every 5 years (as per EU TAR)⁴, this would also allow for more timely updates. The insertion of the NPV test into the UNC is consistent with the charging methodology which has been previously inserted into code (UNC Section Y), along with other charging topics (such as the Optional Commodity Charge)⁵.

https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32017R0460&from=EN

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⁴ Article 27, Paragraph 5.

⁵ This is explained further in South Hook's presentation dated 06 December 2018 to Transmission Workgroup (see slide 3): http://www.gasgovernance.co.uk/0667/061218

The user commitment test associated with the release of Non-Incremental Capacity (i.e. a PARCA met through existing capacity or substitution) is already contained within UNC TPD Section B. Therefore, the inclusion of the NPV test into UNC is consistent with the other Entry User Commitment tests and allows for changes that are applicable across the tests to be made consistently and timely in the future.

Impacts

South Hook Gas believes that this Modification is relatively simple and builds on principles that have been previously used. For example, previous methodologies (e.g. capacity charging and the optional commodity charge) have been inserted into UNC to allow for amendments via the Code Governance Process, which is a robust process allowing for development and implementation of code modifications.

The Incremental Capacity Premium is based on the Mandatory Minimum Premium which is a concept which is set out in EU TAR and is used for Interconnection Point Incremental Capacity Release in GB.

There are no resultant impacts on other users' charges as these alterations only ensure that the Incremental Revenue signal can be achieved as efficiently as possible based on the current usage of the NTS, as was initially intended by the test. The Incremental Capacity Premium also provides the industry with a greater degree of certainty that the PARCA Applicant is able to provide the required commitment to the project, given that the Incremental Capacity Premium will be fixed and applied in addition to the reserve price for any Incremental Capacity allocated.

If the changes are not implemented, South Hook Gas believes the impacts resulting from the current methodology may unintentionally disincentivise investment in the NTS and could restrict future gas supply projects.

4 Code Specific Matters

Reference Documents

Entry Capacity Release Methodology Statement -

https://www.nationalgrid.com/sites/default/files/documents/Entry%20Capacity%20Release%20Methodology%20Statement%20%28Approved%29%20v4.0%20-%20Effective%2031%20July%202017.pdf

Rules for Release of Incremental Capacity at Interconnection Points -

https://www.gasgovernance.co.uk/sites/default/files/ggf/page/2017-08/EID%20Section%20E%20-%20Rules%20for%20the%20Release%20of%20Incremental%20Capacity%20at%20Interconnection %20Points.pdf

5 Solution

Insert the NPV test from Entry Capacity Release Methodology Statement, Chapter 6 into UNC TPD Section B – System Use and Capacity. For the avoidance of doubt the NPV test is deemed to have been passed if:

$$\frac{NPV}{PC} \ge 0.5$$

where:

<i>NPV</i> me	eans the output from the	ne NPV test which is	estimated present value
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of the revenue signals

PC is the estimated NTS project cost (currently Estimated Project Value

as per UNC TPD Section Y Part A1)

The NPV test is only required to be passed when Funded Incremental Obligated Entry Capacity is required to be released as part of the PARCA process. For the avoidance of doubt, where a PARCA solution does not require Funded Incremental Obligated Entry Capacity then the user commitment in UNC TPD Section B 1.17.7 (c) is applicable.

The NPV test then needs to be amended to allow for;

1) an "Incremental Capacity Premium" to be applied should the NPV test fail (i.e. revenues from the sale of incremental capacity will not achieve 50% of Estimated Project Value).

$$\frac{NPV}{PC}$$
 < 0.5

The Incremental Capacity Premium is initially calculated using the following formula:

$$ICP = \frac{RC}{Cap_{total}}$$

where:

RC is the residual cost to be achieved from the Incremental Capacity

Premium

Cap_{total} is the total quantity of capacity signalled within the NPV test (including

any unsold), expressed in kWh

As the Incremental Capacity Premium contributes towards the NPV test it will need to be discounted (in line with the revenue signals). The Incremental Capacity Premium will then be adjusted until the NPV test is passed (i.e. using a "Goal Seek" function).

For the avoidance of doubt;

- the Incremental Capacity Premium is an additional rate that is added to the applicable payable price, calculated to be the minimum value required to allow the NPV test to be passed, in the case where the allocation of all offered incremental capacity at the estimated reference price would not generate sufficient revenues for a positive NPV test outcome, and:
- All revenues associated with the Incremental Capacity Premium (including any
 current unsold baseline it is applied to) contribute towards NPV test. For current
 unsold capacity the difference between the applicable payable price and reserve
 price will be used for the NPV calculation.
- 2) A minimum requirement of Incremental Capacity to be signalled in 4 separate years over the 8 year PARCA period.

For the avoidance of doubt;

- this can mean a minimum signal of 1 quarter in each of the 4 separate years and they are not required to be consecutive years
- The Incremental Capacity signalled in the 4 separate quarters is required to be for the full requested Incremental Capacity amount
- The PARCA period is 8 years (i.e. a rolling 12 month years) beginning in the month the capacity is released and does not have to align to Gas or Calendar Years
- 3) Clarification that the Incremental Capacity can be reprofiled ahead of the second NPV test prior to capacity allocation (at the end of PARCA Phase 2). This includes the recalculation of the Incremental Capacity Premium, if applicable.
 - For the avoidance of doubt this needs to be in line with the rules stated within the PARCA agreement
- 4) The estimated project cost to be initially set at the value used for the first NPV test (prior to reservation at the end of PARCA Phase 1). Then at the time of the second NPV Test (prior to allocation at the end of PARCA Phase 2) the project value will be adjusted in line with the Retail Price Index (RPI)⁶.

The following formula sets out the adjusted project cost (PC_{adi}) ;

$$PC_{adj} = PC_{Phase 1} \times RPI_{adj}$$

where:

 $PC_{Phase 1}$ is the estimated project cost which was fixed at the time of the first

NPV test

RPI_{adi} means the index used for adjustment. It is calculated using the

following formula:

$$RPI_{adj} = \frac{RPI_{Phase\ 2}}{RPI_{Phase\ 1}}$$

where:

RPI_{Phase 1} is the arithmetic average of the Retail Price Index published for the 12

months prior to the first NPV test being passed

RPI_{Phase 2} means the arithmetic average of the Retail Price Index published for

the 12 months prior to the second NPV test being completed

For the avoidance of doubt the estimated project cost is currently the Estimated Project Value, inline with the Gas Transmission Charging Methodology (UNC TPD Section Y Part A1).

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⁶ https://www.ons.gov.uk/economy/inflationandpriceindices/timeseries/chaw/mm23

Impacts & Other Considerations

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

None

Consumer Impacts

According to the Proposer, if implemented this Modification proposal should reduce barriers to entry for investment in the GB network, having a positive impact on security of supply. There are no negative impacts to consumers as this Modification proposal alters the arrangements between Shippers and National Grid NTS only.

Consumer Impact Assessment

(Workgroup assessment of proposer initial view or subsequent information)			
Criteria	Extent of Impact		
Which Consumer groups are affected?	None directly impacted.		
What costs or benefits will pass through to them?	 Since User Commitment is exactly the same as current arrangements, there is likely to be no change to the current situation. It is likely that this Modification will facilitate new investment which is in turn likely to be beneficial to the market overall and therefore indirectly benefit consumers. The stranded asset risk remains the same as it currently is. 		
When will these costs/benefits impact upon consumers?	 The Modification is envisaged to be implemented as soon as possible. The potential benefits may accrue once the capacity is purchased and gas is flowed against it. 		
Are there any other Consumer Impacts?	None identified.		

Cross Code Impacts

None.

EU Code Impacts

There is no impact on EU Codes. The proposed Modification is compliant with current EU Codes.

Central Systems Impacts

It is not anticipated that this Modification Proposal has any Central System Impacts.

Workgroup Impact Assessment

The Workgroup concluded that the Modification is likely to be an improvement to the current UNC in facilitating improved competition - Relevant Objective d).

Workgroup noted that the National Grid consultation on Capacity Methodology Statements had recently (12 April 2019) been published on its website⁷. Workgroup noted that National Grid has included an alternative way of addressing this issue within its proposed Statement which is currently out for consultation (the consultation closes 10 May 2019).

Workgroup noted National Grid had submitted comments regarding Consumer Impact

National Grid has identified scenarios under UNC proposal 0667 whereby the user commitment requirements for existing capacity or substitution solutions, is higher than the user commitment requirements for funded incremental capacity. The practical effect of this is that PARCA applicants could be incentivised to connect to constrained parts of the network resulting in uneconomic outcomes for consumers.

Workgroup noted the Proposer of 0667 had responded as follows:

The funded incremental user commitment test proposed under 0667 results in a test that is economic and efficient by ensuring PARCA Applicants make the financial commitments required for any NTS investment. Any consumers impact and incorrect investment decisions are a result of the user commitment test for substitution and existing capacity which could result in financial commitments disproportionality high compared to funded incremental capacity.

Workgroup briefly reviewed these comments.

Workgroup noted that Modification 0678 and its Alternatives may exacerbate the situation regarding the charges and costs of incremental capacity.

Workgroup noted that a Review group around this issue of User Commitment may be required.

Workgroup noted that the Ofgem's RIIO2 Sector Specific methodology consultation document⁸ has acknowledged that this is an issue.

Rough Order of Magnitude (ROM) Assessment

A ROM has not been requested as this Modification is unlikely to impact Central Systems.

https://www.nationalgridgas.com/capacity/capacity-methodology-statements#tab-2

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⁷ National Grid Gas's Formal Consultation on Capacity Methodologies and Statements:

⁸ Ofgem's RIIO2 Sector Specific methodology consultation document: https://www.ofgem.gov.uk/publications-and-updates/riio-2-sector-specific-methodology-consultation

7 Relevant Objectives

lm	Impact of the modification on the Relevant Objectives according to the Proposer:			
Re	elevant 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.	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.	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.	None		

According to the Proposer, the Modification furthers Relevant Objective a) as follows:

- a) This proposal furthers Relevant Objective (a) as it reduces potential barriers to entry for gas market investment in GB, therefore reducing the incentive for users to pursue private investment options bypassing the NTS and providing greater assurances in respect of GB security of gas supply.
 - This investment in private pipelines could have a negative effect on the operation of the pipeline given the levels gas now bypassing the NTS could be greater than the incremental amount requested, which could have knock on effects to the configuration of the network.
- d) This proposal further relevant objective (d) by:
 - Making the incremental capacity NPV test consistent with the current market environment which does not incentivise long term capacity bookings;

- ii. Minimising the requirement for shippers to book capacity in excess of their ability to flow when signalling incremental capacity, thereby minimising inefficient and uneconomic bookings;
- iii. Not artificially limiting access to entry capacity for other shippers; and
- iv. Reducing barriers to entry for gas market investment in GB

Workgroup discussed the above and debated whether **Relevant Objective a)** is positively impacted. The Workgroup's conclusion was that the effect is likely to be marginally positively impacted and that the focus for this Modification should be on **Relevant Objective d)**.

In discussion with the Proposer, Workgroup noted that the Modification furthers **Relevant Objective d)** as follows:

The allocation of capacity to a shipper via a strict interpretation of the current NPV test (which, as noted above, does not seem to be aligned with the intended purpose) is detrimental to competition by artificially limiting access to entry capacity for other shippers.

Workgroup focussed discussion on whether **Relevant Objective d)** is positively impacted and concluded that the modification is likely to bring additional gas to the market at relevant entry points and therefore competition is likely to be positively impacted.

Some Workgroup participants noted that the socialised cost of the (at most) 50% remains, as has been the case for some time.

Discussion regarding Relevant Objective c) efficient discharge of the Licensee's obligations.

National Grid expressed the following view:

Currently the Licence and the methodology statements address rules for determining obligated and incremental release quantities. This seems appropriate given that the level of release quantity is set by the Licence and incremental release may affect National Grid's allowed revenue. As National Grid has a Licence obligation to determine Incremental release quantities within a methodology statement, then the discharge of this objective will arguably be less efficient if the incremental release rules also moved into the UNC thereby subjecting them to dual governance arrangements. (A Licence change could negate this point).

The Proposer of 0667 offered the following commentary to this point:

Regarding Licensee obligations, the solution under 0667 does not remove the need for a methodology statement and only seeks to move a section of the methodology statement into UNC, which can be referenced in the methodology statement. This is consistent with other areas of the capacity methodology statements, most notably the substitution user commitment which is in UNC despite the rules for substitution being prescribed in the licence and methodology statements. This is contradictory and results in differing treatment for the user commitment tests.

Workgroup explored what Licence change would be required if a Licence change route were chosen. The licence change would have the Licence point to the Methodology in the UNC.

Ofgem clarified for Workgroup that in its view, Modification 0667 requires a Licence change. The Licence obliges NG to release capacity, acting in line with the Capacity Release Methodology and as a

minimum the Licence would have to be changed to say that National Grid should release capacity in line with the Methodology and the UNC. There are potentially other areas which would need review.

Workgroup noted that the Proposer's view was that this was inconsistent with the Substitution User Commitment test, which is in UNC Section B 1.17.7 c) ii. In addition, the Proposer clarified for Workgroup that, on the basis that Ofgem believes the situation highlighted in this Modification requires a Licence change, there are currently other areas⁹ which would also necessitate a Licence change. The Proposer, therefore, was of the view that the Licence change is required with or without this Modification and thus it should not impact the timings of this Modification 0667.

Workgroup noted the timing impact of the Authority's Licence change consultation, which Ofgem estimated to take around 6 months. This adds uncertainty to the latter stages of the Modification process for the Proposer of 0667 and any other party who is in a similar situation. The Incremental User Commitment Test is used to signal potential investment so the uncertainty in this process could impact investment into the GB market with a number of potential consequences for the GB market and GB consumers.

Some Workgroup Participants noted an alternative way of tackling the need for Licence change was to change the Methodology Statement so that the Methodology Statement identified the relevant part of the UNC which applies to the NPV Test. As an example, one can consider the requirement for the Transporters to develop a Network Code, to satisfy this the Network Code points to the UNC.

An alternative solution which would address the dual governance point would be for the Methodology Statement to point to the UNC.

Workgroup noted that Ofgem make its final decide as to whether or not a Licence change is required in order to implement this Modification after receiving the Final Modification Report. National Grid expressed its clear preference for the Licence change but noted for Workgroup that it recognised that the outcome could be achieved via an alternative method.

Some Workgroup participants noted that in terms of Relevant Objective c), facilitating access via a more fit for purpose process positively impacts this Relevant Objective c).

Other Workgroup participants noted that this raises wider issues regarding whether a consistent approach is required for these and other similar licence issues and where such provisions should best sit.

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⁹ The Proposer stated that within Capacity Release Methodology (ECRM Chapter 6), which currently contains the rules for the NPV test, there are already five instances where there are links to processes and calculations which are contained within UNC TPD Section B and TPD Section Y. These include Incremental Capacity signalled in accordance with UNC TPD Section B2 and Calculation of Estimated Project Values as detailed in UNC TPD Section Y A1.

8 Implementation

No implementation timescales are proposed. However, given the current PARCA timescales South Hook Gas is subject to as part of its application, implementation is needed as soon as reasonably possible after a decision to provide certainty on the process.

No implementation costs are anticipated.

9 Legal Text

Legal Text has been provided by National Grid and is published alongside this report here: http://www.gasgovernance.co.uk/0667.

For the avoidance of doubt, the Workgroup discussed whether the Text is adequately clear that the Incremental Release Quantity is driven by the PARCA application rather than the NPV Test (TPD Section B paragraph 1.17.9). Workgroup concluded that this was the case.

Workgroup noted a couple of typographical changes and unintended formatting changes which needed to be corrected before the Modification goes out to consultation. National Grid agreed to provide these changes on the same day as the Workgroup met to facilitate the Workgroup Report being finalised and ready for consultation, should Panel so decide on 18 April. These were provided on 16 April 2019 and published by the Joint Office here: http://www.gasgovernance.co.uk/0667.

The Workgroup has considered the Legal Text on 15 April 2019 and, notwithstanding the very minor typographical changes required, is satisfied that it meets the intent of the Solution.

National Grid and the Proposer confirmed on 16 April 2019 that the Legal Text published meets the requirements of the Modification.

Text Commentary

Legal Text Commentary is published alongside this report here: http://www.gasgovernance.co.uk/0667.

10 Recommendations

Workgroup's Recommendation to Panel

The Workgroup asks Panel to agree that:

This Authority Direction Modification should proceed to consultation.

11 Appendix 1 - Incremental Capacity Premium Calculation

Example

- A user wants to signal 100GWh/day of capacity incremental capacity over 10 quarters
- The Estimated Project Value is £100m and therefore £50m signal is required to pass the NPV test
- The highest price step they can use is 0.0350 p/kWh/day

Calculations10

• Incremental Revenue = Incremental Capacity × Price × Total days in period

 $(100,000,000 \times 0.0350) \times 900 = £31,500,00$

• Incremental Capacity Premium Revenue = Signal Required - Incremental Revenue Signalled

£50,000,000 - £31,500,000 = £18,500,000

• Incremental Capacity Premium Price =

Incremental Capacity Premium revenue /(Sum of Capacity × Total days in period)

£18,500,000 / $(100,000,000 \times 900) = 0.0206 p/kWh/day$

 The 0.0206 p/kWh/day Incremental Capacity Premium would be added to the 0.0350 p/kWh/day reserve price to for all Incremental Capacity.

¹⁰ ¹For simplicity the calculation uses the following assumptions:

[•] There are 90 days in a quarter and therefore the total duration is 900 days.

[·] There is no discount factor applied.