

DISCUSSION DOCUMENT

***NTS GCD10 – Potential one-off change to NTS
(TO) Exit (Flat) Capacity charges for April
2013***

24th October 2012

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1 Executive Summary

- 1.1 This document is issued by National Grid Gas plc (“National Grid”) in its role as Gas Transporter Licence holder in respect of the NTS (the “Licence”).
- 1.2 This document sets out for discussion the option of a one-off change in NTS Exit Capacity charges in April 2013 in an effort to reduce the potential year to year pricing volatility observed in indicative NTS Exit Capacity charges over the coming RIIO-T1 period. This volatility has been identified as a key issue for the industry.
- 1.3 The new Price Control settlement (RIIO-T1) for National Grid will be effective from April 2013 for a period of eight years. This may involve a step change in TO Allowed Revenue from current levels causing greater volatility between charging years and hence looking to address potential volatility may be of interest to industry.
- 1.4 NTS Exit Capacity charges are set for each gas year with effect from 1st October each year to 30th September. The TO Maximum Allowed Revenue (TO MAR) for is set from 1st April to 31st March, referred to as the financial or formula year. This misalignment in allowed revenue and the charge setting period has been identified as a significant contributing factor to the volatility of exit capacity charges.
- 1.5 National Grid is incentivised to not over or under recover in relation to TO MAR in any given financial year. This impacts the TO Exit Capacity charges set in October as they are set to match actual revenues to allowed revenues for any given formula year without consideration of future years TO MAR to ensure allowed revenue recovery. This can cause volatile NTS Exit Capacity charges from year to year with an amplification effect on the charge changes caused by the compensation for any initial under or over recovery during the first six months of each formula year.
- 1.6 A one-off change to NTS Exit Capacity charges in April 2013 would not require a UNC modification but would require a direction from Ofgem. This has been discussed at the NTS Charging Methodology Forum (NTS CMF) on 20th July and 6th September 2012, and it has been agreed to issue this discussion document to allow for further industry opinions to be raised to assess the support or otherwise for such a one-off change in April 2013.
- 1.7 National Grid is therefore seeking industry views on a one-off change to NTS Exit Capacity charges in April 2013.
- 1.8 This paper summarises and takes forward the discussions that have taken place at the NTS Charging Methodology Forum (NTS CMF) in respect of NTS Exit Capacity charging volatility including the major contributory elements of charging volatility and options around how these could be addressed with the use of a one off April 2013 change.
- 1.9 This discussion paper:
 - Provides the background on the influence of TO allowed revenue changes on charging volatility

- Details the impact of the misalignment of the financial year and the gas year on the volatility of NTS Exit Capacity charges
- Shows the key contributory elements on volatility in NTS Exit Capacity charges
- Shows how a one-off change could impact NTS Exit Capacity charges and how this addresses (impacts) volatility utilising various revenue scenarios
- Details any impact on licence or UNC changes in relation to a incorporating a one-off change

1.10 A full list of questions that we would welcome industry responses to are listed in Section 7 (Questions for Discussion) of this document.

The closing date for submission of your responses to the final discussion document is **16th November 2012**. Your response should be emailed to Colin Williams (colin.williams@nationalgrid.com) or alternatively sent by post to:

Colin Williams, Regulatory Frameworks (B3), Transmission Network Services, National Grid, National Grid House, Gallows Hill, Warwick, CV34 6DA

Responses to this discussion document will be incorporated into National Grid's conclusions report. If you wish your response to be treated as confidential then please mark it clearly to that effect.

This document is available on National Grid's website at <http://www.nationalgrid.com/uk/Gas/Charges/consultations/> under the section headed Current Discussion Papers.

2 Introduction

- 2.1 Following National Grid's recent publication of indicative NTS Exit Capacity charges¹, volatility of NTS Exit Capacity charges has been brought forward as an issue of key concern for both National Grid and the industry.
- 2.2 NTS Exit Capacity charges are set to apply from October of year t to September of formula year t+1 in accordance with Standard Special Condition A4 2(a)(ii) of the Gas Transporter Licence in respect of the NTS (the "Licence").
- 2.3 NTS Transportation Owner Maximum Allowed Revenue (TO MAR) applies for April to March of formula year t as detailed in Special Condition C8B 3(a) of the Licence.
- 2.4 In any formula year t, NTS Exit Capacity charges set in October take into account revenue recovered from April to September and are set at a level that aims to recover the remaining TO MAR in the final six months of the formula year. This is to align as closely as possible collected revenues and allowed revenues in any given formula year.
- 2.5 The TO MAR will subsequently change in April of the following formula year (t+1) but NTS Exit Capacity charges have already been set until September (t+1). The NTS Exit Capacity charges set in October (t+1) will take this into account to collect allowed revenues for year t+1. This effect is illustrated in Table 2.1:

Table 2.1 – Annual revenues for setting Exit Capacity Prices

NGG Transmission Owner (TO) Revenues	2011/12	2012/13	2013/14	2014/15	2015/16
	£m	£m	£m	£m	£m
Revenue to be collected via Exit charges	207.6	281.2	432.5	428.3	465.7
Collection in first half of the year	97.4	110.2	171.0	261.5	166.9
Collection required in second half of the year	110.2	171.0	261.5	166.9	298.9
Annual figure for charge setting	220.5	342.0	523.0	333.7	597.7

- 2.6 In October 2011 NTS Exit Capacity charges were set at a level to compensate for the initial under or recovery in the first half of the formula year 2011/12. NTS Exit Capacity Charge setting was based on a value of £220.5m.
- 2.7 In April 2012 the allowed revenue increases to £281.2m for the year April 2012 to March 2013. National Grid will recover £110.2m in the first six months of financial year 2012/13.
- 2.8 New annual NTS Exit Capacity charges to be effective from October 2012 are set so that they aim to recover £281.2m in the financial year April 2012 – March 2013.
- 2.9 National Grid expects to recover £110.2m in the period April 2012 – September 2012. To reach £281.2m for the full year, charges are set such that £171m is recovered in this six month period (October 2012 to March 2013). This means

¹ <http://www.nationalgrid.com/uk/Gas/Charges/indicativecharges/>

NTS Exit Capacity charges are set based on a revenue value of £342m (£171m x 2) which means that £171m will also be recovered in the six months April 2013 to September 2013.

- 2.10 This pattern continues with a disjoint between the revenue to be collected via NTS Exit Capacity charges and the value needed to be used to set annual NTS Exit Capacity charges.
- 2.11 In May 2012 National Grid issued NTS Exit Capacity charges for the twelve months from October 2012 and indicative NTS Exit Capacity charges for the next three years based on the revenues submitted as part of National Grid's March RIIO-T1 submission. These indicative charges demonstrated a pattern of volatility caused by step changes in revenues and the method by which how they feed into NTS Exit Capacity charges.
- 2.12 This volatility is predicted to continue, however the extent of this will be dependent on the magnitude of the step change in TO MAR.
- 2.13 This document discusses the potential for reducing volatility in NTS Exit Capacity charges via a one off charge change in April 2013.

3 Background

NTS Exit Capacity charges

- 3.1 NTS Exit Capacity charges have historically varied from year to year, sometimes quite significantly. This topic has been discussed with industry in the past but no changes have to date been deemed necessary. Through recent industry discussions at NTS Charging Methodology Forums (NTS CMF) the following two options have been discussed in relation to reducing potential volatility:
1. A permanent move to April price changes instead of October; and
 2. A one off change in April then continuing to set annual charges from October in line with the charging methodology
- 3.2 A permanent move to April annual charge setting instead of October would require a UNC modification. In addition this would require a comprehensive review of any impacts on the industry or associated processes. This is potentially a longer term solution but cannot be effected in time for April 2013.
- 3.3 Therefore a one off change has been favoured in industry discussions at NTS CMF; with April 2013 rather than April 2014 having had more support for potentially implementing such a solution of utilising a one off change.

Revenue Scenarios used for comparisons and modelling

- 3.4 Throughout this document two revenue scenarios² have been used to model NTS Exit Capacity charges. These are:
- National Grid's March 2012 RIIO-T1 submission ("Existing" revenues); and
 - Ofgem's July 2012 RIIO-T1³ Initial Proposals.

Review of current arrangements for setting NTS Exit (Flat) Capacity charges

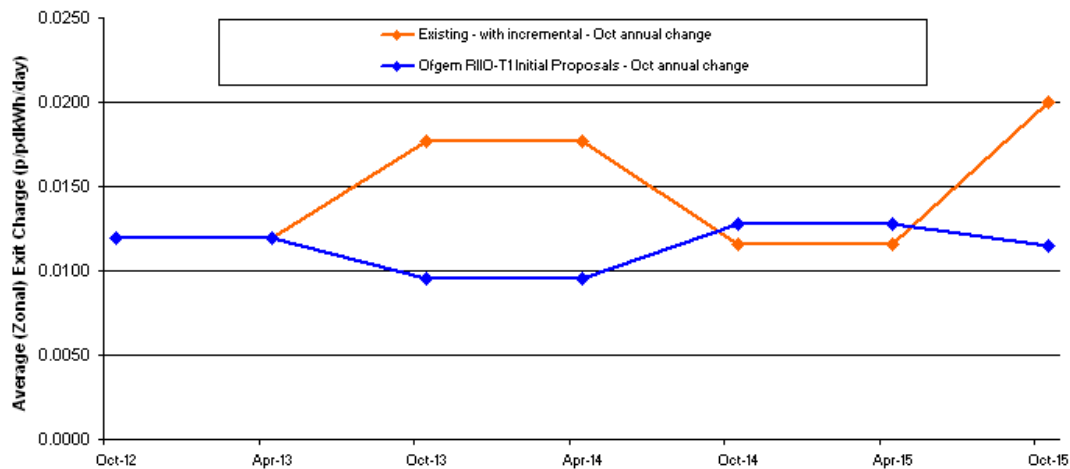
- 3.5 In May 2012 National Grid published final NTS Exit Capacity charges for the twelve months from October 2012. Along with these final prices, indicative values for the following three years were also published. These values were based on National Grid's March 2012 RIIO-T1 submission. Values have also been calculated to show what the prices would be using the revenue values from Ofgem's RIIO-T1 Initial Proposals. (Appendix B shows more detail on the revenue values.) A comparison of the charges⁴ from these two revenue scenarios and associated volatility over time is shown in chart 3.1 below:

² It is these two revenue scenarios that are used throughout this discussion document and that have been discussed at recent NTSCMF's in July and September 2012

³ The new price control settlement period that will run from April 2013 to March 2021

⁴ Further detail and additional information can be found in Appendix B.

Chart 3.1 – Comparison of average zonal charges⁵ between Existing publication and Ofgem RIIO Initial Proposals



- 3.6 What can be seen is that depending on a revenue change taking place the volatility and fluctuating charges from year to year will continue as a result of the under and over recovery adjustment taking place in the October charges to ensure allowed revenues are recovered in each formula year.
- 3.7 Such volatility would continue until either the allowed revenue from one price control to another remained broadly consistent or until there is a correcting element such as a one-off change to act as a stabiliser.

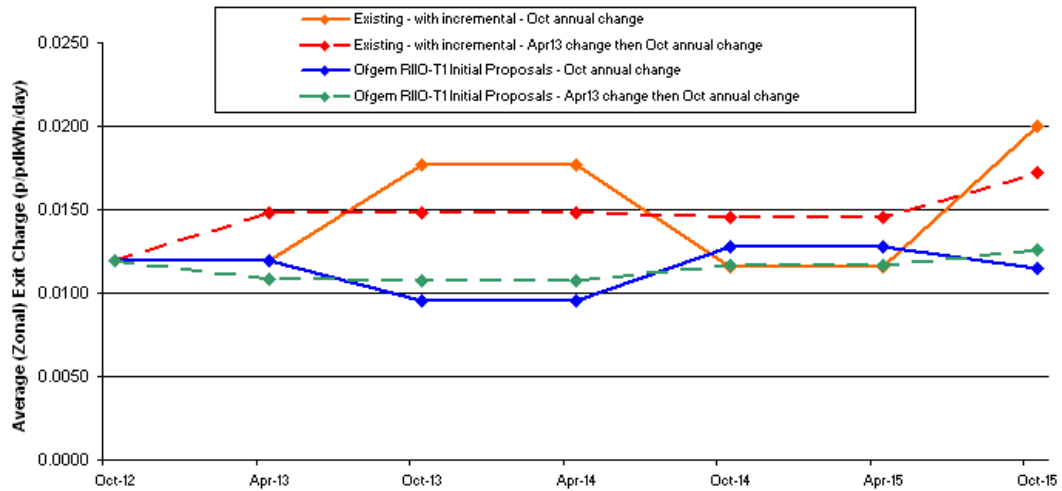
Impact of a one off April 2013 change

- 3.8 Where revenues do change (either increasing or decreasing) from one year to the next it will result in swings in NTS Exit Capacity charges that fluctuate to ensure that recovered revenues match allowed revenues. To show the impact of having a one off change in April 2013 the revised charges have been calculated over the same period as was used in chart 3.1 to show the difference between:
- Setting annually on October; and
 - Setting in April 2013 for six months only then continuing with October annual setting from October 2013 onwards
- 3.9 A comparison of the average zonal charges for the two revenue scenarios is shown in chart 3.2⁶.

⁵ These are average zonal charges and should not be taken as specific NTS Exit Points. Indicative NTS Exit Point Capacity Charges are available in Appendix A

⁶ Further detail and additional information can be found in Appendix C

Chart 3.2 - Comparison of average zonal charges between Existing publication and Ofgem RIIO Initial Proposals with and without an April one off change



- 3.10 In comparing the impact of incorporating an April 2013 charge change Chart 3.2 shows that volatility is reduced, lessening the overall size of the changes seen in prices from year to year and reducing the volatility in the changes over time (i.e. a comparison of the dotted lines compared to the solid lines).

4 Discussion of Issues

Volatility as an issue for Customers

- 4.1 Volatility in NTS Exit Capacity charges has been raised as a key issue by stakeholders through RIIO engagement, customer services and industry expert groups.
- 4.2 Under the scenarios considered in Section 3.4 volatility is likely to remain within the NTS Exit Capacity charges if no action is taken. If long term stability to these charges is considered of value to the industry then the option of an April 2013 one-off price change could be considered as a stabilising mechanism to the NTS Exit Capacity charges.

Main drivers of volatility

- 4.3 By far the greatest contributor to volatility in NTS Exit Capacity charges is the allowed revenue changes and the method of its inclusion into setting charges. However, aside from the misalignment of gas and formula year (i.e. the disjoint between charging/capacity year and formula year), the following also contribute to volatility in charges but are not considered within this discussion paper:
- Supply / Demand flows – supply and demand changes in the NTS Transportation Model
 - Expansion Constant – unit cost that is used in the NTS Transportation Model based on the costs of constructing NTS capacity
 - Changes to the network – used in the NTS Transportation Model
- 4.4 As changes in allowed revenues are the most significant contributing element⁷ to the volatility this area has been made the focus of this discussion document and recent discussions with industry at NTS CMF.

Timing of changing charges

- 4.5 In arriving at the decision to raise a discussion document on the use of an April 2013 price change alternative timings have been considered. The options considered were:
1. One-off change to set charges from 1st April 2013 for six months
 2. A permanent move to April annual charge setting in place of October
 3. No change - continue to set charges with effect from 1st October each year for 12 months duration.

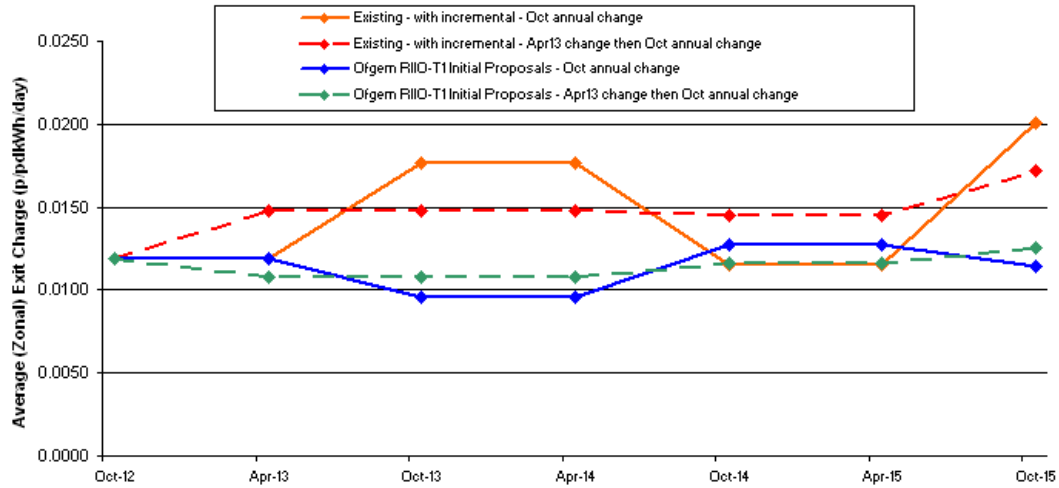
Option 1

- 4.6 A one off change to NTS Exit Capacity charges for six months from April 2013 would override prices already published for the period April 2013 to September 2013. Charge setting from then on would continue to follow the UNC, setting annual prices in October. This option would not require a UNC modification. A direction would be required from Ofgem to implement this option.

⁷ More detail on the analysis of the main drivers of volatility can be found in Appendix D

4.7 The impact of accommodating a one off change is shown in Chart 4.1 that displays the charges for the two revenue scenarios detailed in Section 3.4.

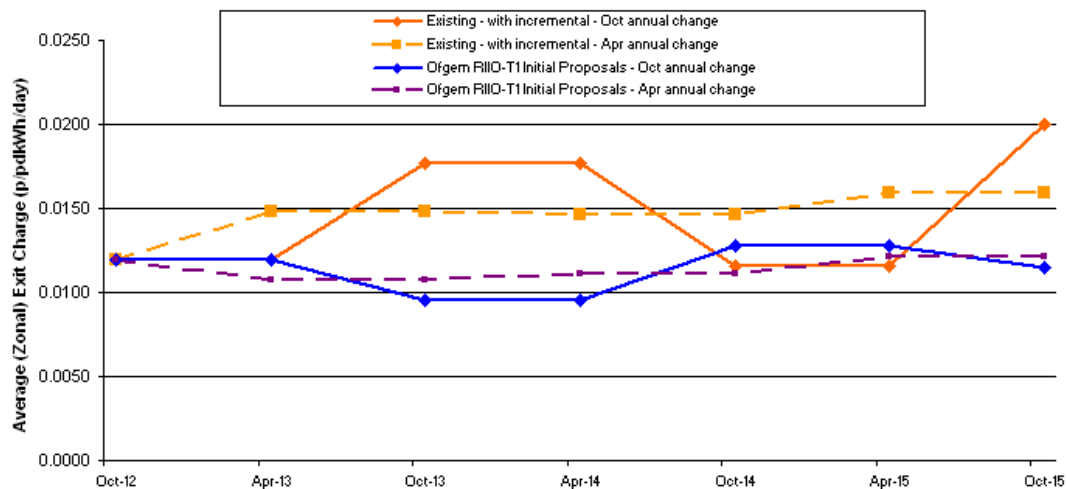
Chart 4.1 – Comparison of average zonal charges⁸ between Existing publication and Ofgem RIIO Initial Proposals with and without an April one off change



Option 2

4.8 A move to April annual charge setting would require a UNC modification and further consideration on any additional industry processes or obligations that may be impacted. Chart 4.2 shows a comparison of October prices, again using the two revenue scenarios of Existing March 2012 RIIO submission and that of Ofgem Initial Proposals, and that of setting annually in April.

Chart 4.2 - Comparison of average zonal charges⁹ between Existing publication and Ofgem RIIO Initial Proposals of October and April annual price setting



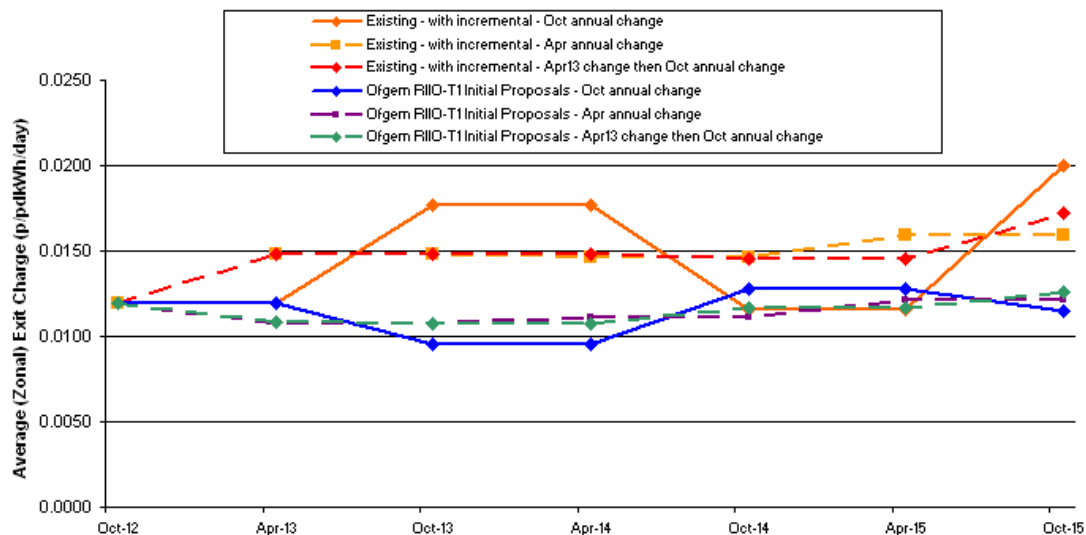
⁸ These are average zonal charges and should not be taken as specific Exit Points. Indicative Exit Point Charges are available in Appendix A.

⁹ These are average zonal charges and should not be taken as specific Exit Points. Indicative Exit Point Charges are available in Appendix A

Option 3

- 4.9 This would leave the arrangements as they are and any volatility would remain in the NTS Exit Capacity charges where step changes are seen in TO MAR.
- 4.10 It was decided to take forward the option of using an April price change as a one off exercise for discussion as, over the permanent April annual change, it has a number of benefits in that no UNC modification would be required and that it offers almost the same level of volatility reduction as the permanent April price change would offer. Chart 4.3 shows Options 1, 2 and 3 together in that, for both revenue scenarios it shows the impact of an April one off change and the April permanent move and the original October annual prices for comparison.

Chart 4.3 - Comparison of average zonal charges between Existing publication and Ofgem RIIO Initial Proposals of October and April annual price setting and the use of an April one off change



- 4.11 The level of volatility reduction beyond that of an April 2013 one off price change is minimal and therefore an option for development and discussion at this time is an April 2013 one off change. This would not preclude further consideration in the future for a permanent move to April NTS Exit Capacity charge setting.

Licence and the UNC

- 4.12 A one-off change applied for NTS Exit Capacity charges would not require a UNC modification but would require a direction from Ofgem to take place. Standard Special Condition A4 (Charging – General) paragraph 2(a)(ii) states that National Grid shall use its reasonable endeavours:

“not to make any changes to charges or reserve prices in relation to NTS exit capacity and NTS exit flow flexibility more frequently than once in each formula year and for such changes to take place on 1 October in each formula year or at such other time as the Authority may by notice in writing direct”

The Transportation Model

- 4.13 The Transportation Model will not be affected by a one off April as only the revenue input would be revised.

Revenue (TO MAR) changes

- 4.14 Should the final RIIO-T1 revenues be close to the current levels used for charge setting in 2012/13 there would be less underlying volatility and therefore a one-off change would have a minimal impact in addressing volatile charges.

Ofgem Volatility Consultation

- 4.15 In April 2012 Ofgem released a consultation on network charging volatility entitled "Mitigating network charging volatility arising from the price control settlement". This consultation¹⁰ covers volatility in Gas and Electricity Transmission and Distribution charges.
- 4.16 On 17 October 2012 Ofgem published a decision document¹¹ in relation to measures to mitigate network charging volatility arising from the price control settlement.
- 4.17 In their decision document, in relation to Gas Transmission charges, Ofgem do not consider that is appropriate to restrict changes to charges within the GT licence to only once per year starting from April 2013, but will reconsider any future changes regarding the restriction on intra-year charges once the industry has concluded whether charge setting changes should be aligned with the start of the formula year.
- 4.18 Therefore there are no revisions to this document required as a result of decisions Ofgem have made.
- 4.19 Should any further consultations be required as a result of the decisions made this would be part of a future formal consultation to consider the necessary modifications to the UNC TPD - Section Y – Charging Methodologies as required.

NTS (TO) Exit Commodity Charge

- 4.20 NTS Exit Capacity charges are calculated using National Grid's charge setting NTS Transportation Model so as to recover the target TO exit revenue from baseline exit capacity sales. Any forecasted revenue shortfall as a result of unsold baseline exit capacity will be recovered through the NTS (TO) Exit Commodity charge, a single unit charge that will be applied to all exit volumes. The NTS (TO) Exit Commodity rate is therefore calculated as the amount to be recovered divided by forecast exit throughput levels.
- 4.21 When updating the forecast NTS (TO) Exit Commodity charge National Grid looks at the twelve month period of April to March. The NTS (TO) Exit Commodity charge will be set at a rate that would aim to recover the allowed revenue over the twelve month period. This process aims to ensure that any

¹⁰ <http://www.ofgem.gov.uk/Pages/MoreInformation.aspx?docid=368&refer=NETWORKS/POLICY>

¹¹ http://www.ofgem.gov.uk/Networks/Policy/Documents1/CV_Decision.pdf

change in the NTS (TO) Exit Commodity rate required in October will be minimised with the main influence within year being changes to forecast throughput levels.

4.22 The following tables show that by resetting NTS Exit Capacity charges in April 2013, the within year volatility for NTS Exit Capacity charges will be reduced. This does not impact the NTS (TO) Exit Commodity charge as the overall amount to be recovered through NTS (TO) Exit Commodity charges remains the same. The volatility therefore remains solely with the NTS Exit Capacity charges.

Table 4.1 - Setting NTS Exit Capacity charges in October and impact on NTS (TO) Exit Commodity charge (numbers are subject to rounding).

2013/14 Charges and Revenues [#] (£m)	Apr 13 to Sep 13	Oct 13 to Mar 14	Apr 13 to Mar 14
Total TO Exit Target Revenue			307
Revenue required through exit baseline sales; calculated prices at Oct 12 and Oct 13, respectively	172	136	307
Expected revenue from booked exit capacity (excl incremental)	128	99	227
Shortfall (to be recovered from NTS (TO) Exit Commodity)			81

2013/14 NTS (TO) Exit Commodity Charge [#]	Apr 13 to Mar 14
Exit Charging Base (GWh)	737,209
NTS (TO) Exit Commodity (p/kWh) Same price all year	0.0110

Table 4.2 - Setting NTS Exit Capacity charges in April 2013 and subsequently in October 2013 and impact on NTS (TO) Exit Commodity charge (numbers are subject to rounding)

2013/14 Charges and Revenues [#] (£m)	Apr 13 to Sep 13	Oct 13 to Mar 14	Apr 13 to Mar 14
Total TO Exit Target Revenue			307
Revenue required through exit baseline sales; calculated prices at Oct 12 and Oct 13, respectively	153	153	307
Expected revenue from booked exit capacity (excl incremental)	112	112	225
Shortfall (to be recovered from NTS (TO) Exit Commodity)			81

2013/14 NTS (TO) Exit Commodity Charge [#]	Apr 13 to Mar 14
Exit Charging Base (GWh)	737,209
NTS (TO) Exit Commodity (p/kWh) Same price all year	0.0110

[#]The values used in Tables 4.1 and 4.2 are for illustrative purposes only and should not be used as National Grid are due to publish indicative charges in November 2012 for April 2013. Final charges will depend on the outcome of the RIIO-T1 price control settlement.

4.23 Any volatility in the NTS (TO) Exit Commodity charge, following a one off change for NTS Exit Capacity charges, would be as a result of:

- Changes in allowed revenues
- Differences in forecast and actual throughput levels

5 Justification should an April one off change be required

Assessment against licence objectives

- 5.1 The National Grid Gas plc Gas Transporter Licence in respect of the NTS requires that proposed changes to the Charging Methodology shall achieve the relevant methodology objectives. Whilst the option considered here does not require a change to the Charging Methodology, consideration against National Grid's objectives under the licence may still be deemed appropriate.
- 5.2 Respondents are therefore asked to consider how this option of having a one-off April 2013 price change meets with National Grid's objectives within their responses to this discussion paper.
- 5.3 Where transportation prices are not established through an auction, prices calculated in accordance with the methodology should:
- 1) Reflect the costs incurred by the licensee in its transportation business;
 - 2) So far as is consistent with (1) properly take account of developments in the transportation business;
 - 3) So far as is consistent with (1) and (2) facilitate effective competition between gas shippers and between gas suppliers.

Assessment against EU Gas Regulations

- 5.4 EC Regulation 1775/2005 on conditions for access to the natural gas transmission networks (binding from 1 July 2006) is summarised as follows; the principles for network access tariffs or the methodologies used to calculate them shall:
- Be transparent
 - Take into account the need for system integrity and its improvement
 - Reflect actual costs incurred for an efficient and structurally comparable network operator
 - Be applied in a non-discriminatory manner
 - Facilitate efficient gas trade and competition
 - Avoid cross-subsidies between network users
 - Provide incentives for investment and maintaining or creating interoperability for transmission networks
 - Not restrict market liquidity
 - Not distort trade across borders of different transmission systems.
- 5.5 National Grid believes that should this option be implemented, the introduction of a one-off change without a change to the UNC would achieve the relevant objectives. As the option of having a one-off change in April 2013 does not require a change to the Charging Methodology the process by which NTS Exit Capacity charges are calculated will continue to reflect the costs incurred by the licensee in its transportation business.
- 5.6 A one off change in April 2013 would act as a stabiliser to charges and the process would then continue as per the current process and continue to be set

annually with effect from October 2013. More stable charges provide more useful long term information benefitting both existing and new entrants.

- 5.7 A one-off change to help stabilise price fluctuations from year to year facilitates effective competition between gas shippers and suppliers as more stable NTS Exit Capacity charges without undue volatility could help to reduce the risks associated with reflecting transportation charges within their contracts

6 Level and impact of potential change

- 6.1 For information, indicative charges have been calculated based on the two revenue scenarios outlined in Section 3 of this document to show the impact of incorporating an April 2013 one off change. These indicative NTS Exit Capacity charges by NTS Exit Point are shown in Appendix A.
- 6.2 Should there be sufficient support for a one-off change in April 2013 then National Grid will:
- Publish indicative NTS Exit Capacity charges as soon as possible for April 2013 but conditional on:
 - An Ofgem direction permitting a one off change
 - The final accepted RIIO-T1 allowed revenues effective from April 2013
 - Hold an NTS CMF in December / January after RIIO-T1 Final Proposals to show the impact on NTS Exit Capacity charges using both the current method of October Charge Setting and that of including a one-off April 2013 change
 - By 31 January 2013, provide final charges for 1 April 2013 – 30 September 2013, subject to Ofgem direction to be allowed this under the Licence.
 - For the avoidance of doubt if no change is required (i.e. there is no direction to implement a one off change) prices published would be the same as those issued to be effective from October 2012.

7 Questions for Discussion

- 7.1 This paper has discussed pricing volatility in future NTS Exit Capacity charges and considers the potential solution of a one-off change to NTS Exit Capacity charges.
- 7.2 We would be pleased to receive views on the following questions:
- Do you support the use of a one-off April charge change effective from April 2013?
 - Do you agree that a one-off April 2013 charge change should only be used if the outcome of the RIIO-T1 price control presents a significant step change in allowed revenues?
 - Would a one-off April change have an adverse impact on any of your business processes?
 - Are there any other items in relation to the use of a one-off change that you believe to be relevant that should be taken into account or warrant further consideration?

Responses to this discussion document will be incorporated into National Grid's conclusions report. If you wish your response to be treated as confidential then please mark it clearly to that effect.

The closing date for submission of your responses is **16th November 2012**. Your response should be emailed to Colin Williams (colin.williams@nationalgrid.com) or alternatively sent by post to:

Colin Williams, Regulatory Frameworks (B3), Transmission Network Services,
National Grid, National Grid House, Gallows Hill, Warwick, CV34 6DA

8 Appendix A – Indicative prices for further information

Table 8.1 Indicative NTS Exit Capacity charges to show the impact of incorporating a one off April charge change in the two considered revenue scenarios

TRANSPORTATION MODEL NAME	Offtake Point as in Charging Statement	Indicative NTS Exit Capacity charges* based on National Grid March RIIO-T1 submission with October changes (p/kWh/d)				Indicative NTS Exit Capacity charges based on National Grid March RIIO-T1 submission with a one off April change (p/kWh/d)				Indicative NTS Exit Capacity charges* based on Ofgem Initial Proposals for RIIO-T1 with October Changes (p/kWh/d)				Indicative NTS Exit Capacity charges* based on Ofgem Initial Proposals for RIIO-T1 with a one off April 2013 change (p/kWh/d)			
		Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15	Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15
ABERDEEN	Aberdeen	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
ALREWAS_EM	Alrewas (EM)	0.0177	0.0241	0.0177	0.0272	0.0207	0.0211	0.0209	0.0242	0.0177	0.0151	0.0191	0.0179	0.0164	0.0166	0.0178	0.0193
ALREWAS_WM	Alrewas (WM)	0.0177	0.0241	0.0177	0.0272	0.0207	0.0211	0.0209	0.0242	0.0177	0.0151	0.0191	0.0179	0.0164	0.0166	0.0178	0.0193
ARMADALE	Armadale	0.0001	0.0034	0.0001	0.0048	0.0010	0.0004	0.0017	0.0019	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
ASPLEY	Aspley	0.0206	0.0272	0.0210	0.0305	0.0237	0.0243	0.0242	0.0276	0.0206	0.0183	0.0224	0.0213	0.0193	0.0198	0.0211	0.0226
ASSELBY	Asselby	0.0044	0.0102	0.0031	0.0121	0.0074	0.0072	0.0064	0.0092	0.0044	0.0012	0.0046	0.0029	0.0031	0.0027	0.0033	0.0043
AUDLEY_NW	Audley (NW)	0.0223	0.0290	0.0228	0.0324	0.0253	0.0260	0.0260	0.0294	0.0223	0.0200	0.0242	0.0231	0.0210	0.0215	0.0229	0.0245
AUDLEY_WM	Audley (WM)	0.0223	0.0290	0.0228	0.0324	0.0253	0.0260	0.0260	0.0294	0.0223	0.0200	0.0242	0.0231	0.0210	0.0215	0.0229	0.0245
AUSTREY	Austrey	0.0170	0.0234	0.0164	0.0258	0.0201	0.0204	0.0196	0.0228	0.0170	0.0144	0.0178	0.0165	0.0157	0.0160	0.0165	0.0179
AVONMOUTH_LNG	Avonmouth Max Refill	0.0184	0.0238	0.0168	0.0262	0.0214	0.0208	0.0200	0.0232	0.0184	0.0148	0.0182	0.0169	0.0171	0.0164	0.0169	0.0183
AYLESBEARE	Aylesbeare	0.0250	0.0308	0.0241	0.0337	0.0281	0.0278	0.0273	0.0308	0.0250	0.0218	0.0255	0.0244	0.0237	0.0233	0.0242	0.0258
BACTON_BAIRD	Bacton (Baird)	0.0011	0.0067	0.0001	0.0084	0.0041	0.0037	0.0027	0.0054	0.0011	0.0001	0.0009	0.0001	0.0001	0.0001	0.0001	0.0005
BACTONINT	Bacton (IUK)	0.0011	0.0067	0.0001	0.0084	0.0041	0.0037	0.0027	0.0054	0.0011	0.0001	0.0009	0.0001	0.0001	0.0001	0.0001	0.0005
BACTONBBLINT	Bacton (BBL)	0.0011	0.0067	0.0001	0.0084	0.0041	0.0037	0.0027	0.0054	0.0011	0.0001	0.0009	0.0001	0.0001	0.0001	0.0001	0.0005
BACTON_OT	Bacton	0.0011	0.0067	0.0001	0.0084	0.0041	0.0037	0.0027	0.0054	0.0011	0.0001	0.0009	0.0001	0.0001	0.0001	0.0001	0.0005
BAGLAN_BAY_PG	Tonna (Baglan Bay)	0.0010	0.0056	0.0001	0.0066	0.0041	0.0026	0.0010	0.0036	0.0010	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
BALDERSBY	Baldersby	0.0058	0.0117	0.0047	0.0138	0.0089	0.0087	0.0080	0.0108	0.0058	0.0027	0.0061	0.0045	0.0045	0.0042	0.0049	0.0059
BALGRAY	Balgray	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

* Charges shown for October 2012 are final charges as per those published in May 2012 and available at <http://www.nationalgrid.com/uk/Gas/Charges/indicativecharges/>

TRANSPORTATION MODEL NAME	Offtake Point as in Charging Statement	Indicative NTS Exit Capacity charges* based on National Grid March RIIO-T1 submission with October changes (p/kWh/d)				Indicative NTS Exit Capacity charges based on National Grid March RIIO-T1 submission with a one off April change (p/kWh/d)				Indicative NTS Exit Capacity charges* based on Ofgem Initial Proposals for RIIO-T1 with October Changes (p/kWh/d)				Indicative NTS Exit Capacity charges* based on Ofgem Initial Proposals for RIIO-T1 with a one off April 2013 change (p/kWh/d)			
		Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15	Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15
BARKING_PG	Barking (Horndon)	0.0137	0.0199	0.0133	0.0227	0.0167	0.0170	0.0166	0.0197	0.0137	0.0109	0.0148	0.0134	0.0124	0.0125	0.0135	0.0148
BARROW_BS	Barrow (Black Start)	0.0102	0.0162	0.0119	0.0187	0.0132	0.0133	0.0151	0.0157	0.0102	0.0073	0.0133	0.0094	0.0089	0.0088	0.0120	0.0108
BARROW_BAINS	Barrow (Bains)	0.0102	0.0162	0.0119	0.0187	0.0132	0.0133	0.0151	0.0157	0.0102	0.0073	0.0133	0.0094	0.0089	0.0088	0.0120	0.0108
BARROW_GATEWAY	Barrow (Gateway)	0.0102	0.0162	0.0119	0.0187	0.0132	0.0133	0.0151	0.0157	0.0102	0.0073	0.0133	0.0094	0.0089	0.0088	0.0120	0.0108
BATHGATE	Bathgate	0.0001	0.0030	0.0001	0.0044	0.0006	0.0001	0.0013	0.0014	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
BILLINGHAM_ICI	Billingham ICI (Terra Billingham)	0.0021	0.0078	0.0007	0.0096	0.0052	0.0049	0.0039	0.0067	0.0021	0.0001	0.0021	0.0003	0.0008	0.0004	0.0008	0.0017
BISHOP_AUCKLAND	Bishop Auckland	0.0039	0.0097	0.0026	0.0116	0.0070	0.0067	0.0058	0.0086	0.0039	0.0007	0.0040	0.0023	0.0026	0.0022	0.0027	0.0037
BISHOP_AUCKLAND_TE ST_FACILITY	Bishop Auckland (test facility)	0.0039	0.0097	0.0026	0.0116	0.0070	0.0067	0.0058	0.0086	0.0039	0.0007	0.0040	0.0023	0.0026	0.0022	0.0027	0.0037
BLABY	Blaby	0.0142	0.0204	0.0139	0.0232	0.0172	0.0175	0.0171	0.0203	0.0142	0.0115	0.0153	0.0139	0.0129	0.0130	0.0140	0.0153
BLACKROD	Blackrod	0.0194	0.0260	0.0196	0.0292	0.0225	0.0230	0.0229	0.0262	0.0194	0.0170	0.0211	0.0199	0.0181	0.0185	0.0198	0.0213
BLYBOROUGH	Blyborough	0.0062	0.0121	0.0051	0.0142	0.0092	0.0091	0.0083	0.0112	0.0062	0.0031	0.0065	0.0049	0.0049	0.0046	0.0052	0.0063
BP_GRANGEMOUTH	Blackness (BP Grangemouth)	0.0001	0.0016	0.0001	0.0029	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
BP_SALTEND_HP	Saltend BPHP (BP Saltend HP)	0.0004	0.0060	0.0001	0.0077	0.0035	0.0031	0.0020	0.0047	0.0004	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
BRAISHFIELD_A	Braishfield A	0.0255	0.0323	0.0263	0.0360	0.0285	0.0294	0.0295	0.0331	0.0255	0.0233	0.0277	0.0267	0.0242	0.0249	0.0264	0.0281
BRAISHFIELD_B	Braishfield B	0.0255	0.0323	0.0263	0.0360	0.0285	0.0294	0.0295	0.0331	0.0255	0.0233	0.0277	0.0267	0.0242	0.0249	0.0264	0.0281
BRIDGEWATER_PAPER	Shotwick (Bridgewater Paper)	0.0262	0.0331	0.0271	0.0368	0.0292	0.0301	0.0303	0.0339	0.0262	0.0241	0.0285	0.0275	0.0249	0.0256	0.0272	0.0289
BRIGG_PG	Blyborough (Brigg)	0.0071	0.0131	0.0062	0.0153	0.0102	0.0101	0.0094	0.0123	0.0071	0.0041	0.0076	0.0060	0.0058	0.0056	0.0063	0.0074
BRIMSDOWN_PG	Epping Green (Enfield Energy, aka Brimsdown)	0.0142	0.0205	0.0139	0.0232	0.0172	0.0175	0.0171	0.0203	0.0142	0.0115	0.0153	0.0139	0.0129	0.0130	0.0140	0.0153
BRINE_FIELD_PS	Brine Field (Teesside) Power Station	0.0015	0.0071	0.0001	0.0089	0.0045	0.0042	0.0032	0.0059	0.0015	0.0001	0.0014	0.0001	0.0002	0.0001	0.0001	0.0010
BRISLEY	Brisley	0.0039	0.0096	0.0026	0.0116	0.0069	0.0066	0.0058	0.0086	0.0039	0.0006	0.0040	0.0023	0.0026	0.0022	0.0027	0.0037
BROXBURN	Broxburn	0.0001	0.0046	0.0001	0.0061	0.0021	0.0016	0.0030	0.0032	0.0001	0.0001	0.0012	0.0001	0.0001	0.0001	0.0001	0.0001

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		Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15	Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15
BRUNNER_MOND	Pickmere (Winnington Power, aka Brunner Mond)	0.0228	0.0295	0.0252	0.0330	0.0259	0.0265	0.0285	0.0300	0.0228	0.0205	0.0266	0.0237	0.0215	0.0221	0.0253	0.0251
BURLEY_BANK	Burley Bank	0.0079	0.0138	0.0070	0.0161	0.0109	0.0108	0.0102	0.0131	0.0079	0.0048	0.0084	0.0068	0.0066	0.0064	0.0071	0.0082
CALDECOTT	Caldecott	0.0118	0.0180	0.0113	0.0206	0.0149	0.0150	0.0145	0.0176	0.0118	0.0090	0.0127	0.0113	0.0105	0.0105	0.0114	0.0127
CAMBRIDGE	Cambridge	0.0101	0.0162	0.0094	0.0186	0.0132	0.0132	0.0127	0.0157	0.0101	0.0072	0.0109	0.0094	0.0088	0.0087	0.0096	0.0107
CARESTON	Careston	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
CARRINGTON_PS	Carrington (Partington) Power Station	0.0222	0.0289	0.0252	0.0323	0.0253	0.0260	0.0284	0.0294	0.0222	0.0199	0.0266	0.0231	0.0209	0.0215	0.0253	0.0245
CAYTHORPE_(MRS)	Caythorpe	0.0028	0.0085	0.0014	0.0104	0.0059	0.0055	0.0046	0.0074	0.0028	0.0001	0.0028	0.0011	0.0015	0.0010	0.0015	0.0025
CHESHIRE_(MRS)	Cheshire (Holford)	0.0228	0.0295	0.0245	0.0330	0.0258	0.0265	0.0277	0.0300	0.0228	0.0205	0.0259	0.0237	0.0215	0.0220	0.0246	0.0251
CIRENCESTER	Cirencester	0.0145	0.0197	0.0125	0.0217	0.0175	0.0167	0.0157	0.0188	0.0145	0.0107	0.0139	0.0125	0.0132	0.0122	0.0126	0.0139
COFFINSWELL	Coffinswell	0.0277	0.0336	0.0270	0.0367	0.0308	0.0306	0.0302	0.0338	0.0277	0.0246	0.0284	0.0274	0.0264	0.0261	0.0271	0.0288
COLDSTREAM	Coldstream Burton Point (Connahs Quay)	0.0001	0.0054	0.0006	0.0070	0.0029	0.0025	0.0039	0.0041	0.0001	0.0001	0.0021	0.0001	0.0001	0.0001	0.0008	0.0001
CONNAHS_QUAY_PS	Connahs Quay	0.0266	0.0335	0.0275	0.0372	0.0296	0.0305	0.0307	0.0343	0.0266	0.0245	0.0289	0.0279	0.0253	0.0260	0.0276	0.0293
CORBRIDGE	Corbridge	0.0045	0.0103	0.0057	0.0123	0.0076	0.0073	0.0089	0.0093	0.0045	0.0013	0.0071	0.0030	0.0032	0.0028	0.0058	0.0044
CORBYP_PS	Caldecott (Corby Power Station)	0.0122	0.0184	0.0117	0.0210	0.0152	0.0154	0.0149	0.0180	0.0122	0.0094	0.0131	0.0117	0.0109	0.0109	0.0118	0.0131
CORYTON_PG	Stanford Le Hope (Coryton)	0.0134	0.0196	0.0130	0.0223	0.0165	0.0167	0.0163	0.0194	0.0134	0.0107	0.0145	0.0131	0.0121	0.0122	0.0132	0.0145
CORYTON_PG_2	Coryton 2 (Thames Haven) Power Station	0.0134	0.0196	0.0130	0.0223	0.0165	0.0167	0.0163	0.0194	0.0134	0.0107	0.0145	0.0131	0.0121	0.0122	0.0132	0.0145
COTTAM_PG	Blyborough (Cottam)	0.0062	0.0121	0.0051	0.0142	0.0092	0.0091	0.0083	0.0112	0.0062	0.0031	0.0065	0.0049	0.0049	0.0046	0.0052	0.0063
COWPEN_BEWLEY	Cowpen Bewley	0.0019	0.0076	0.0005	0.0094	0.0050	0.0046	0.0037	0.0064	0.0019	0.0001	0.0019	0.0001	0.0006	0.0001	0.0006	0.0015
CRAWLEY_DOWN	Crawley Down	0.0242	0.0310	0.0249	0.0346	0.0273	0.0280	0.0281	0.0316	0.0242	0.0220	0.0263	0.0253	0.0229	0.0235	0.0250	0.0267

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		Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15	Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15
DAMHEAD_CREEK	Middle Stoke (Damhead Creek, aka Kingsnorth Power Station)	0.0114	0.0176	0.0109	0.0201	0.0145	0.0146	0.0141	0.0172	0.0114	0.0086	0.0123	0.0109	0.0101	0.0101	0.0110	0.0122
DEESIDE_PS	Deeside	0.0266	0.0335	0.0275	0.0372	0.0296	0.0305	0.0307	0.0343	0.0266	0.0245	0.0289	0.0280	0.0253	0.0260	0.0276	0.0294
DIDCOT_PS	Didcot PS	0.0202	0.0268	0.0205	0.0301	0.0233	0.0238	0.0238	0.0271	0.0202	0.0178	0.0219	0.0208	0.0189	0.0194	0.0206	0.0222
DOWLAIS	Dowlais	0.0033	0.0080	0.0003	0.0092	0.0064	0.0050	0.0035	0.0062	0.0033	0.0001	0.0017	0.0001	0.0020	0.0005	0.0004	0.0013
DRAKELow_PS	Drakelow Power Station	0.0172	0.0236	0.0172	0.0266	0.0202	0.0206	0.0204	0.0237	0.0172	0.0146	0.0186	0.0173	0.0159	0.0161	0.0173	0.0187
DROINTON_OT	Drointon	0.0188	0.0253	0.0189	0.0284	0.0218	0.0223	0.0221	0.0255	0.0188	0.0163	0.0203	0.0191	0.0175	0.0178	0.0190	0.0205
DRUM	Drum	0.0001	0.0001	0.0001	0.0012	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
DYFFRYN_CLYDACH	Dyffryn Clydach	0.0010	0.0056	0.0001	0.0065	0.0041	0.0026	0.0009	0.0036	0.0010	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
DYNEVOR_ARMS_LNG EASINGTON&ROUGH_TERMINAL	Dynevor Max Refill	0.0028	0.0074	0.0001	0.0085	0.0058	0.0045	0.0029	0.0056	0.0028	0.0001	0.0011	0.0001	0.0015	0.0001	0.0001	0.0007
EASTON_GREY	Rough Max Refill	0.0001	0.0041	0.0001	0.0056	0.0016	0.0011	0.0001	0.0026	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
EASTON_GREY	Easton Grey	0.0150	0.0202	0.0130	0.0223	0.0180	0.0173	0.0163	0.0194	0.0150	0.0113	0.0145	0.0131	0.0137	0.0128	0.0132	0.0145
ECCLESTON	Ecclestone	0.0255	0.0324	0.0263	0.0360	0.0286	0.0294	0.0295	0.0331	0.0255	0.0234	0.0277	0.0268	0.0242	0.0249	0.0264	0.0282
ELTON	Elton	0.0031	0.0088	0.0017	0.0107	0.0061	0.0058	0.0049	0.0077	0.0031	0.0001	0.0031	0.0014	0.0018	0.0013	0.0018	0.0028
ENRON_(BILLINGHAM)	Enron Billingham	0.0022	0.0078	0.0007	0.0096	0.0052	0.0049	0.0039	0.0067	0.0022	0.0001	0.0021	0.0004	0.0009	0.0004	0.0008	0.0017
EVESHAM	Evesham	0.0115	0.0165	0.0092	0.0184	0.0145	0.0136	0.0124	0.0154	0.0115	0.0076	0.0106	0.0091	0.0102	0.0091	0.0093	0.0105
EYE	Peterborough Eye (Tee)	0.0092	0.0152	0.0084	0.0175	0.0122	0.0122	0.0116	0.0146	0.0092	0.0062	0.0098	0.0083	0.0079	0.0077	0.0085	0.0097
FARNINGHAM	Farningham	0.0138	0.0201	0.0135	0.0228	0.0168	0.0171	0.0167	0.0198	0.0138	0.0111	0.0149	0.0135	0.0125	0.0126	0.0136	0.0149
FARNINGHAM_B	Farningham B	0.0138	0.0201	0.0135	0.0228	0.0168	0.0171	0.0167	0.0198	0.0138	0.0111	0.0149	0.0135	0.0125	0.0126	0.0136	0.0149
FIDDINGTON	Fiddington	0.0102	0.0152	0.0078	0.0169	0.0133	0.0122	0.0110	0.0140	0.0102	0.0062	0.0092	0.0077	0.0089	0.0078	0.0079	0.0090
GANSTEAD	Ganstead	0.0008	0.0064	0.0001	0.0081	0.0038	0.0034	0.0024	0.0051	0.0008	0.0001	0.0006	0.0001	0.0001	0.0001	0.0001	0.0002
GARTON_(MRS)	Garton Max Refill (Aldbrough)	0.0001	0.0054	0.0001	0.0070	0.0029	0.0024	0.0013	0.0040	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
GILWERN	Gilwern	0.0045	0.0092	0.0015	0.0105	0.0075	0.0062	0.0047	0.0075	0.0045	0.0002	0.0029	0.0012	0.0032	0.0018	0.0016	0.0026
GLENMAVIS	Glenmavis	0.0001	0.0043	0.0001	0.0058	0.0018	0.0013	0.0027	0.0029	0.0001	0.0001	0.0008	0.0001	0.0001	0.0001	0.0001	0.0001

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		Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15	Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15
GLENMAVIS_LNG	Glenmavis Max Refill	0.0001	0.0043	0.0001	0.0058	0.0018	0.0013	0.0027	0.0029	0.0001	0.0001	0.0008	0.0001	0.0001	0.0001	0.0001	0.0001
GOOLE_GLASS	Goole (Guardian Glass)	0.0049	0.0107	0.0037	0.0127	0.0080	0.0078	0.0069	0.0098	0.0049	0.0017	0.0051	0.0035	0.0036	0.0033	0.0038	0.0049
GOSBERTON	Gosberton	0.0072	0.0132	0.0063	0.0154	0.0103	0.0102	0.0095	0.0124	0.0072	0.0042	0.0077	0.0061	0.0059	0.0057	0.0064	0.0075
GRAIN_GAS	Grain Power Station	0.0114	0.0176	0.0109	0.0201	0.0145	0.0146	0.0141	0.0172	0.0114	0.0086	0.0123	0.0109	0.0101	0.0101	0.0110	0.0122
GREAT_WILBRAHAM	Great Wilbraham Bacton (Great Yarmouth)	0.0092	0.0152	0.0084	0.0176	0.0122	0.0122	0.0116	0.0146	0.0092	0.0062	0.0098	0.0083	0.0079	0.0077	0.0085	0.0097
GREAT_YARMOUTH	Great Yarmouth	0.0011	0.0067	0.0001	0.0084	0.0041	0.0037	0.0027	0.0054	0.0011	0.0001	0.0009	0.0001	0.0001	0.0001	0.0001	0.0005
GUYZANCE	Guyzance	0.0020	0.0077	0.0030	0.0094	0.0050	0.0047	0.0062	0.0065	0.0020	0.0001	0.0044	0.0002	0.0007	0.0002	0.0031	0.0016
HARDWICK	Hardwick	0.0168	0.0232	0.0167	0.0261	0.0198	0.0202	0.0199	0.0232	0.0168	0.0142	0.0181	0.0169	0.0155	0.0157	0.0168	0.0183
HATFIELD_MOOR_(MRS)	Hatfield Moor Max Refill Hollingsgreen (Hays Chemicals)	0.0055	0.0115	0.0046	0.0136	0.0086	0.0086	0.0078	0.0107	0.0055	0.0025	0.0060	0.0043	0.0042	0.0041	0.0047	0.0057
HAYS_CHEMICALS HOLEHOUSE_FARM_(MRS)	Hole House Max Refill	0.0234	0.0301	0.0240	0.0336	0.0264	0.0271	0.0272	0.0307	0.0234	0.0211	0.0254	0.0244	0.0221	0.0227	0.0241	0.0257
HOLMES_CHAPEL	Holmes Chapel	0.0235	0.0303	0.0241	0.0338	0.0266	0.0273	0.0273	0.0308	0.0235	0.0213	0.0255	0.0245	0.0222	0.0228	0.0242	0.0259
HORNDON	Horndon	0.0137	0.0199	0.0133	0.0227	0.0167	0.0170	0.0166	0.0197	0.0137	0.0109	0.0148	0.0134	0.0124	0.0125	0.0135	0.0148
HORNSEA_(MRS)	Hornsea Max Refill	0.0016	0.0073	0.0001	0.0090	0.0047	0.0043	0.0033	0.0061	0.0016	0.0001	0.0015	0.0001	0.0003	0.0001	0.0002	0.0011
HUMBLETON	Humbleton	0.0001	0.0049	0.0001	0.0065	0.0024	0.0019	0.0033	0.0035	0.0001	0.0001	0.0015	0.0001	0.0001	0.0001	0.0002	0.0001
BARTON_STACEY_(MRS)	Barton Stacey Max Refill (Humbly Grove)	0.0240	0.0307	0.0246	0.0343	0.0270	0.0278	0.0278	0.0313	0.0240	0.0217	0.0260	0.0250	0.0227	0.0233	0.0247	0.0264
HUME	Hume	0.0008	0.0064	0.0017	0.0081	0.0039	0.0035	0.0049	0.0052	0.0008	0.0001	0.0031	0.0001	0.0001	0.0001	0.0018	0.0002
ICI_RUNCORN	Weston Point (Castner Kelner, aka ICI Runcorn)	0.0263	0.0332	0.0272	0.0369	0.0294	0.0302	0.0304	0.0340	0.0263	0.0242	0.0286	0.0277	0.0250	0.0257	0.0273	0.0291
ILCHESTER	Ilchester Thornton Curtis (Humber Refinery, aka Immingham)	0.0208	0.0263	0.0194	0.0289	0.0239	0.0234	0.0226	0.0260	0.0208	0.0174	0.0208	0.0196	0.0195	0.0189	0.0195	0.0210
IMMINGHAM_PG	Immingham	0.0011	0.0067	0.0001	0.0085	0.0042	0.0038	0.0028	0.0055	0.0011	0.0001	0.0010	0.0001	0.0001	0.0001	0.0001	0.0006

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		Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15	Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15
IPSDEN	Ipsden	0.0199	0.0265	0.0202	0.0297	0.0230	0.0235	0.0234	0.0268	0.0199	0.0175	0.0216	0.0205	0.0186	0.0190	0.0203	0.0219
IPSDEN_2	Ipsden 2	0.0199	0.0265	0.0202	0.0297	0.0230	0.0235	0.0234	0.0268	0.0199	0.0175	0.0216	0.0205	0.0186	0.0190	0.0203	0.0219
KEADBY_BS	Eastoft (Keadby Blackstart)	0.0060	0.0119	0.0050	0.0140	0.0091	0.0089	0.0082	0.0111	0.0060	0.0029	0.0064	0.0047	0.0047	0.0044	0.0051	0.0061
KEADBY_PS	Eastoft (Keadby)	0.0060	0.0119	0.0050	0.0140	0.0091	0.0089	0.0082	0.0111	0.0060	0.0029	0.0064	0.0047	0.0047	0.0044	0.0051	0.0061
KELD	Keld	0.0111	0.0173	0.0130	0.0198	0.0142	0.0143	0.0162	0.0168	0.0111	0.0083	0.0144	0.0105	0.0098	0.0098	0.0131	0.0119
KEMIRAINCE_CHP	Shellstar (aka Kemira, not Kemira CHP)	0.0259	0.0328	0.0268	0.0365	0.0290	0.0298	0.0300	0.0336	0.0259	0.0238	0.0282	0.0272	0.0246	0.0253	0.0269	0.0286
KENN_SOUTH	Kenn	0.0261	0.0319	0.0252	0.0349	0.0292	0.0290	0.0285	0.0320	0.0261	0.0229	0.0267	0.0257	0.0248	0.0245	0.0254	0.0270
KINGS_LYNN_PS	Saddle Bow (Kings Lynn)	0.0065	0.0124	0.0055	0.0145	0.0096	0.0094	0.0087	0.0116	0.0065	0.0034	0.0069	0.0053	0.0052	0.0049	0.0056	0.0067
KINKNOCKIE	Kinknockie	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
KIRKSTEAD	Kirkstead	0.0052	0.0110	0.0040	0.0131	0.0083	0.0081	0.0073	0.0101	0.0052	0.0020	0.0055	0.0038	0.0039	0.0036	0.0042	0.0052
LANGAGE_PG	Langage Power Station	0.0304	0.0364	0.0300	0.0398	0.0335	0.0335	0.0332	0.0368	0.0304	0.0274	0.0314	0.0305	0.0291	0.0290	0.0301	0.0319
LANGHOLM	Langholm	0.0055	0.0113	0.0068	0.0134	0.0085	0.0084	0.0100	0.0104	0.0055	0.0023	0.0082	0.0041	0.0042	0.0039	0.0069	0.0055
LAUDERHILL	Lauderhill	0.0020	0.0077	0.0030	0.0095	0.0051	0.0047	0.0062	0.0065	0.0020	0.0001	0.0044	0.0002	0.0007	0.0002	0.0031	0.0016
LEAMINGTON_SPA	Leamington	0.0140	0.0193	0.0120	0.0213	0.0171	0.0163	0.0152	0.0183	0.0140	0.0103	0.0134	0.0120	0.0127	0.0118	0.0121	0.0134
LITTLE_BARFORD_PS	St. Neots (Little Barford)	0.0130	0.0192	0.0126	0.0219	0.0160	0.0162	0.0158	0.0189	0.0130	0.0102	0.0140	0.0126	0.0117	0.0117	0.0127	0.0140
LITTLE_BURDON	Little Burdon	0.0035	0.0092	0.0022	0.0111	0.0065	0.0063	0.0054	0.0082	0.0035	0.0002	0.0036	0.0019	0.0022	0.0018	0.0023	0.0032
LITTLETON_DREW	Littleton Drew	0.0158	0.0211	0.0139	0.0232	0.0188	0.0181	0.0171	0.0203	0.0158	0.0121	0.0153	0.0140	0.0145	0.0136	0.0140	0.0154
LOCKERBIE	Lockerbie	0.0046	0.0104	0.0058	0.0124	0.0076	0.0074	0.0090	0.0094	0.0046	0.0014	0.0072	0.0031	0.0033	0.0029	0.0059	0.0045
LONGANNET	Gowkhall (Longannet)	0.0001	0.0009	0.0001	0.0021	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LOWER_QUINTON	Lower Quinton	0.0126	0.0177	0.0104	0.0196	0.0156	0.0147	0.0136	0.0167	0.0126	0.0087	0.0118	0.0103	0.0113	0.0102	0.0105	0.0117
LUPTON	Lupton	0.0137	0.0199	0.0158	0.0227	0.0167	0.0170	0.0190	0.0197	0.0137	0.0109	0.0172	0.0134	0.0124	0.0125	0.0159	0.0148
LUXBOROUGH_LANE	Luxborough Lane	0.0139	0.0202	0.0136	0.0229	0.0170	0.0172	0.0168	0.0200	0.0139	0.0112	0.0150	0.0136	0.0126	0.0127	0.0137	0.0150
MAELOR	Maelor	0.0250	0.0318	0.0257	0.0354	0.0280	0.0288	0.0289	0.0325	0.0250	0.0228	0.0271	0.0261	0.0237	0.0243	0.0258	0.0275

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		Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15	Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15
MALPAS	Malpas	0.0242	0.0309	0.0248	0.0345	0.0272	0.0280	0.0281	0.0316	0.0242	0.0220	0.0263	0.0252	0.0229	0.0235	0.0250	0.0266
MAPPOWDER	Mappowder	0.0229	0.0285	0.0217	0.0313	0.0259	0.0256	0.0249	0.0283	0.0229	0.0195	0.0231	0.0220	0.0216	0.0211	0.0218	0.0234
MARCHWOOD	Marchwood Power Station	0.0257	0.0326	0.0266	0.0363	0.0288	0.0296	0.0298	0.0333	0.0257	0.0236	0.0280	0.0270	0.0244	0.0251	0.0267	0.0284
MARKET_HARBOROUGH	Market Harborough	0.0129	0.0192	0.0125	0.0218	0.0160	0.0162	0.0158	0.0189	0.0129	0.0102	0.0140	0.0126	0.0117	0.0117	0.0127	0.0140
MATCHING_GREEN	Matching Green	0.0132	0.0195	0.0129	0.0222	0.0163	0.0165	0.0161	0.0192	0.0132	0.0105	0.0143	0.0129	0.0119	0.0120	0.0130	0.0143
MEDWAY_PS	Medway (aka Isle of Grain Power Station, NOT Grain Power)	0.0115	0.0177	0.0110	0.0202	0.0146	0.0147	0.0142	0.0173	0.0115	0.0087	0.0124	0.0110	0.0102	0.0102	0.0111	0.0123
MELKINTHORPE	Melkinthorpe	0.0104	0.0165	0.0122	0.0189	0.0134	0.0135	0.0154	0.0160	0.0104	0.0075	0.0136	0.0096	0.0091	0.0090	0.0123	0.0110
MICKLE_TRAFFORD	Mickle Trafford	0.0254	0.0322	0.0262	0.0359	0.0284	0.0292	0.0294	0.0329	0.0254	0.0232	0.0276	0.0266	0.0241	0.0247	0.0263	0.0280
MILFORD_HAVEN_REFINERY	Upper Neeston (Milford Haven Refinery)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
MILWICH	Milwich	0.0194	0.0259	0.0196	0.0291	0.0225	0.0230	0.0228	0.0262	0.0194	0.0169	0.0210	0.0198	0.0181	0.0185	0.0197	0.0212
MOFFAT	Moffat (Irish Interconnector)	0.0035	0.0092	0.0046	0.0111	0.0065	0.0062	0.0078	0.0082	0.0035	0.0002	0.0060	0.0018	0.0022	0.0017	0.0047	0.0032
BURNHERVIE	Burnervie	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
NETHER_HOWCLEUGH	Netherhowcleugh	0.0027	0.0084	0.0038	0.0103	0.0058	0.0055	0.0070	0.0073	0.0027	0.0001	0.0052	0.0010	0.0014	0.0010	0.0039	0.0024
PANNAL	Pannal	0.0083	0.0143	0.0074	0.0166	0.0113	0.0113	0.0106	0.0136	0.0083	0.0053	0.0088	0.0073	0.0070	0.0068	0.0075	0.0087
PARTINGTON	Partington	0.0222	0.0289	0.0252	0.0323	0.0253	0.0260	0.0284	0.0294	0.0222	0.0199	0.0266	0.0231	0.0209	0.0215	0.0253	0.0245
PARTINGTON_LNG	Partington Max Refill	0.0222	0.0289	0.0251	0.0323	0.0253	0.0259	0.0283	0.0293	0.0222	0.0199	0.0265	0.0230	0.0209	0.0214	0.0252	0.0244
PAULL	Paull	0.0002	0.0058	0.0001	0.0074	0.0032	0.0028	0.0018	0.0044	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PEMBROKE_PG	Blackbridge (Pembroke PS)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PETERBOROUGH_PS	Peterborough (Peterborough Power Station)	0.0095	0.0156	0.0088	0.0179	0.0126	0.0126	0.0120	0.0150	0.0095	0.0066	0.0102	0.0087	0.0082	0.0081	0.0089	0.0101
PETERHEAD_PG	St. Fergus (Peterhead)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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PETERS_GREEN	Peters Green	0.0133	0.0196	0.0130	0.0223	0.0164	0.0166	0.0162	0.0193	0.0133	0.0106	0.0144	0.0130	0.0120	0.0121	0.0131	0.0144
PETERS_GREEN_SOUTH_MIMMS	Peters Green South Mimms	0.0133	0.0196	0.0130	0.0223	0.0164	0.0166	0.0162	0.0193	0.0133	0.0106	0.0144	0.0130	0.0120	0.0121	0.0131	0.0144
PHILLIPS_SEAL_SANDS	Phillips Petroleum, Teeside	0.0015	0.0071	0.0001	0.0089	0.0045	0.0042	0.0032	0.0059	0.0015	0.0001	0.0014	0.0001	0.0002	0.0001	0.0001	0.0010
PICKERING	Pickering	0.0055	0.0113	0.0044	0.0134	0.0085	0.0084	0.0076	0.0104	0.0055	0.0023	0.0058	0.0041	0.0042	0.0039	0.0045	0.0055
PITCAIRNGREEN	Pitcairngreen	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PUCKLECHURCH	Pucklechurch	0.0166	0.0220	0.0148	0.0242	0.0197	0.0190	0.0181	0.0213	0.0166	0.0130	0.0163	0.0149	0.0153	0.0145	0.0150	0.0163
RAWCLIFFE	Rawcliffe	0.0046	0.0104	0.0033	0.0124	0.0076	0.0074	0.0066	0.0094	0.0046	0.0014	0.0048	0.0031	0.0033	0.0029	0.0035	0.0045
ROCKSAVAGE_PG	Weston Point (Rocksavage)	0.0263	0.0332	0.0272	0.0369	0.0294	0.0302	0.0304	0.0340	0.0263	0.0242	0.0286	0.0277	0.0250	0.0257	0.0273	0.0291
ROOSECOTE_PS	Roosecote (Roosecote Power Station)	0.0102	0.0162	0.0119	0.0187	0.0132	0.0133	0.0151	0.0157	0.0102	0.0073	0.0133	0.0094	0.0089	0.0088	0.0120	0.0108
ROSS_SW	Ross (SW)	0.0074	0.0123	0.0048	0.0138	0.0105	0.0093	0.0080	0.0108	0.0074	0.0033	0.0062	0.0045	0.0061	0.0049	0.0049	0.0059
ROSS_WM	Ross (WM)	0.0074	0.0123	0.0048	0.0138	0.0105	0.0093	0.0080	0.0108	0.0074	0.0033	0.0062	0.0045	0.0061	0.0049	0.0049	0.0059
ROUDHAM_HEATH	Roudham Heath	0.0055	0.0113	0.0044	0.0134	0.0085	0.0084	0.0076	0.0104	0.0055	0.0023	0.0058	0.0041	0.0042	0.0039	0.0045	0.0055
ROYSTON	Royston	0.0110	0.0171	0.0104	0.0196	0.0141	0.0142	0.0136	0.0167	0.0110	0.0081	0.0118	0.0104	0.0097	0.0097	0.0105	0.0117
RUGBY	Rugby	0.0151	0.0204	0.0132	0.0225	0.0182	0.0174	0.0164	0.0195	0.0151	0.0114	0.0146	0.0132	0.0138	0.0129	0.0133	0.0146
RYE_HOUSE_PS	Ryehouse	0.0146	0.0209	0.0144	0.0237	0.0177	0.0179	0.0176	0.0208	0.0146	0.0119	0.0158	0.0144	0.0133	0.0135	0.0145	0.0158
SALTEND	Rosehill (Saltend Power Station)	0.0002	0.0058	0.0001	0.0075	0.0033	0.0028	0.0018	0.0045	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
SALTWICK_PC	Saltwick Pressure Controlled	0.0032	0.0090	0.0043	0.0108	0.0063	0.0060	0.0075	0.0079	0.0032	0.0001	0.0057	0.0016	0.0019	0.0015	0.0044	0.0030
SALTWICK_VC	Saltwick Volumetric Controlled	0.0032	0.0090	0.0043	0.0108	0.0063	0.0060	0.0075	0.0079	0.0032	0.0001	0.0057	0.0016	0.0019	0.0015	0.0044	0.0030
SAMLESBURY	Samlesbury	0.0180	0.0245	0.0181	0.0276	0.0211	0.0215	0.0213	0.0246	0.0180	0.0155	0.0195	0.0183	0.0167	0.0170	0.0182	0.0197
SAPPAPERMILLCHP	Sandy Lane (Blackburn CHP, aka Sappi Paper Mill)	0.0184	0.0249	0.0185	0.0280	0.0215	0.0219	0.0218	0.0250	0.0184	0.0159	0.0199	0.0187	0.0171	0.0174	0.0186	0.0201

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SEABANK_LDZ	Seabank (DN)	0.0185	0.0240	0.0169	0.0264	0.0216	0.0210	0.0202	0.0234	0.0185	0.0150	0.0183	0.0171	0.0172	0.0165	0.0171	0.0185
SEABANK_POWER_phase1	Abson (Seabank Power Station phase I)	0.0166	0.0220	0.0149	0.0242	0.0197	0.0190	0.0181	0.0213	0.0166	0.0130	0.0163	0.0149	0.0153	0.0145	0.0150	0.0163
SEABANK_POWER_phaseII	Seabank (Seabank Power Station phase II)	0.0184	0.0238	0.0168	0.0262	0.0215	0.0209	0.0200	0.0233	0.0184	0.0149	0.0182	0.0169	0.0171	0.0164	0.0169	0.0183
SELLAFIELD_PS	Sellafield Power Station	0.0142	0.0205	0.0163	0.0232	0.0172	0.0175	0.0196	0.0203	0.0142	0.0115	0.0178	0.0140	0.0129	0.0130	0.0165	0.0154
SHORNE	Shorne	0.0128	0.0190	0.0124	0.0217	0.0159	0.0160	0.0156	0.0187	0.0128	0.0100	0.0138	0.0124	0.0115	0.0115	0.0125	0.0138
SHOTTON_PAPER	Harwarden (Shotton, aka Shotton Paper)	0.0265	0.0334	0.0274	0.0371	0.0295	0.0304	0.0306	0.0342	0.0265	0.0244	0.0288	0.0279	0.0252	0.0259	0.0275	0.0293
SHUSTOKE	Shustoke	0.0182	0.0247	0.0177	0.0271	0.0212	0.0217	0.0209	0.0242	0.0182	0.0157	0.0191	0.0178	0.0169	0.0172	0.0178	0.0192
SILK_WILLOUGHBY	Silk Willoughby	0.0064	0.0123	0.0054	0.0145	0.0095	0.0094	0.0086	0.0115	0.0064	0.0033	0.0068	0.0052	0.0051	0.0049	0.0055	0.0066
SOUTRA	Soutra	0.0025	0.0082	0.0036	0.0101	0.0056	0.0053	0.0068	0.0071	0.0025	0.0001	0.0050	0.0008	0.0012	0.0008	0.0037	0.0022
SPALDING_PG	Wragg Marsh (Spalding)	0.0076	0.0135	0.0067	0.0158	0.0106	0.0106	0.0099	0.0128	0.0076	0.0045	0.0081	0.0065	0.0063	0.0061	0.0068	0.0079
SPALDING_PG_2	Spalding 2 (South Holland) Power Station Staythorpe PH1 and PH2	0.0076	0.0135	0.0067	0.0158	0.0106	0.0106	0.0099	0.0128	0.0076	0.0045	0.0081	0.0065	0.0063	0.0061	0.0068	0.0079
STAYTHORPE	St. Fergus (Shell Blackstart)	0.0091	0.0151	0.0083	0.0175	0.0122	0.0122	0.0116	0.0145	0.0091	0.0061	0.0097	0.0082	0.0078	0.0077	0.0084	0.0096
ST_FERGUS_BS	St Fergus	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
ST_FERGUS_OT	Stallingborough (phase 1 and 2)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
STALLINGBOROUGH	Stranraer	0.0020	0.0077	0.0006	0.0095	0.0051	0.0047	0.0038	0.0065	0.0020	0.0001	0.0020	0.0002	0.0007	0.0002	0.0007	0.0016
STRANRAER	Stratford-upon-Avon	0.0035	0.0092	0.0046	0.0111	0.0065	0.0062	0.0078	0.0082	0.0035	0.0002	0.0060	0.0018	0.0022	0.0017	0.0047	0.0032
STRATFORD_UPON_AVON	Stublach (Cheshire)	0.0127	0.0178	0.0105	0.0197	0.0158	0.0149	0.0137	0.0168	0.0127	0.0088	0.0119	0.0105	0.0114	0.0104	0.0106	0.0119
STUBLACH	Sutton Bridge	0.0228	0.0295	0.0245	0.0330	0.0258	0.0265	0.0277	0.0300	0.0228	0.0205	0.0259	0.0237	0.0215	0.0220	0.0246	0.0251
SUTTON_BRIDGE		0.0080	0.0140	0.0071	0.0162	0.0110	0.0110	0.0103	0.0133	0.0080	0.0050	0.0085	0.0069	0.0067	0.0065	0.0072	0.0083

TRANSPORTATION MODEL NAME	Offtake Point as in Charging Statement	Indicative NTS Exit Capacity charges based on National Grid March RIIO-T1 submission with October changes (p/kWh/d)				Indicative NTS Exit Capacity charges based on National Grid March RIIO-T1 submission with a one off April change (p/kWh/d)				Indicative NTS Exit Capacity charges* based on Ofgem Initial Proposals for RIIO-T1 with October Changes (p/kWh/d)				Indicative NTS Exit Capacity charges* based on Ofgem Initial Proposals for RIIO-T1 with a one off April 2013 change (p/kWh/d)			
		Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15	Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15
SUTTON_BRIDGE_PS	Sutton Bridge Power Station	0.0078	0.0138	0.0069	0.0161	0.0109	0.0108	0.0102	0.0131	0.0078	0.0048	0.0084	0.0068	0.0065	0.0063	0.0071	0.0082
TATSFIELD	Tatsfield	0.0155	0.0219	0.0153	0.0247	0.0186	0.0189	0.0186	0.0218	0.0155	0.0129	0.0168	0.0155	0.0142	0.0144	0.0155	0.0168
TEESSIDE_BASF	Teesside (BASF, aka BASF Teesside)	0.0015	0.0071	0.0001	0.0089	0.0046	0.0042	0.0032	0.0059	0.0015	0.0001	0.0014	0.0001	0.0002	0.0001	0.0001	0.0010
TEESSIDE_HYDROGEN	Teesside Hydrogen	0.0015	0.0072	0.0001	0.0089	0.0046	0.0042	0.0032	0.0059	0.0015	0.0001	0.0014	0.0001	0.0002	0.0001	0.0001	0.0010
Theddlethorpe&Saltf_MINAL	Saltfleetby Storage (Theddlethorpe)	0.0016	0.0073	0.0001	0.0090	0.0047	0.0043	0.0034	0.0061	0.0016	0.0001	0.0015	0.0001	0.0003	0.0001	0.0002	0.0012
THORNTON_CURTIS_LDZ	Thornton Curtis (DN)	0.0011	0.0067	0.0001	0.0085	0.0042	0.0038	0.0028	0.0055	0.0011	0.0001	0.0010	0.0001	0.0001	0.0001	0.0001	0.0006
THORNTON_CURTIS_(KILLINGHOLME)	Thornton Curtis (Killingholme)	0.0011	0.0067	0.0001	0.0085	0.0042	0.0038	0.0028	0.0055	0.0011	0.0001	0.0010	0.0001	0.0001	0.0001	0.0001	0.0006
THRINTOFT	Thrintoft	0.0052	0.0110	0.0040	0.0130	0.0082	0.0080	0.0072	0.0101	0.0052	0.0020	0.0054	0.0037	0.0039	0.0035	0.0041	0.0051
TOW_LAW	Towlaw	0.0058	0.0117	0.0048	0.0138	0.0089	0.0087	0.0080	0.0109	0.0058	0.0027	0.0062	0.0045	0.0046	0.0043	0.0049	0.0059
TOWTON	Towton	0.0066	0.0125	0.0055	0.0146	0.0096	0.0095	0.0088	0.0116	0.0066	0.0035	0.0069	0.0053	0.0053	0.0050	0.0056	0.0067
TUR_LANGTON	Tur Langton	0.0131	0.0193	0.0127	0.0220	0.0162	0.0164	0.0159	0.0191	0.0131	0.0103	0.0141	0.0127	0.0118	0.0119	0.0128	0.0141
WALESBY	Walesby	0.0028	0.0085	0.0014	0.0103	0.0058	0.0055	0.0046	0.0074	0.0028	0.0001	0.0028	0.0011	0.0015	0.0010	0.0015	0.0025
WARBURTON	Warburton	0.0220	0.0287	0.0249	0.0321	0.0251	0.0257	0.0281	0.0291	0.0220	0.0197	0.0263	0.0228	0.0207	0.0212	0.0250	0.0242
WEST_WINCH	West Winch	0.0062	0.0121	0.0051	0.0142	0.0093	0.0091	0.0084	0.0113	0.0062	0.0031	0.0066	0.0049	0.0049	0.0046	0.0053	0.0063
WESTON_POINT	Weston Point	0.0263	0.0332	0.0272	0.0369	0.0294	0.0302	0.0304	0.0340	0.0263	0.0242	0.0286	0.0277	0.0250	0.0257	0.0273	0.0291
WETHERAL	Wetheral	0.0079	0.0139	0.0094	0.0161	0.0109	0.0109	0.0126	0.0132	0.0079	0.0049	0.0108	0.0068	0.0066	0.0064	0.0095	0.0082
WHITWELL	Whitwell	0.0129	0.0191	0.0125	0.0218	0.0160	0.0162	0.0157	0.0189	0.0129	0.0102	0.0139	0.0125	0.0116	0.0117	0.0126	0.0139
WINKFIELD_NT	Winkfield (NT)	0.0220	0.0286	0.0224	0.0320	0.0250	0.0256	0.0256	0.0291	0.0220	0.0196	0.0238	0.0227	0.0207	0.0212	0.0225	0.0241
WINKFIELD_SE	Winkfield (SE)	0.0220	0.0286	0.0224	0.0320	0.0250	0.0256	0.0256	0.0291	0.0220	0.0196	0.0238	0.0227	0.0207	0.0212	0.0225	0.0241
WINKFIELD_SO	Winkfield (SO)	0.0220	0.0286	0.0224	0.0320	0.0250	0.0256	0.0256	0.0291	0.0220	0.0196	0.0238	0.0227	0.0207	0.0212	0.0225	0.0241
WYRE_PS	Wyre Power Station	0.0173	0.0238	0.0198	0.0268	0.0204	0.0208	0.0230	0.0238	0.0173	0.0148	0.0212	0.0175	0.0160	0.0163	0.0199	0.0189
YELVERTON	Yelverton	0.0033	0.0091	0.0020	0.0110	0.0064	0.0061	0.0052	0.0080	0.0033	0.0001	0.0034	0.0017	0.0020	0.0016	0.0021	0.0031

TRANSPORTATION MODEL NAME	Offtake Point as in Charging Statement	Indicative NTS Exit Capacity charges* based on National Grid March RIIO-T1 submission with October changes (p/kWh/d)				Indicative NTS Exit Capacity charges based on National Grid March RIIO-T1 submission with a one off April change (p/kWh/d)				Indicative NTS Exit Capacity charges* based on Ofgem Initial Proposals for RIIO-T1 with October Changes (p/kWh/d)				Indicative NTS Exit Capacity charges* based on Ofgem Initial Proposals for RIIO-T1 with a one off April 2013 change (p/kWh/d)			
		Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15	Oct-12	Oct-13	Oct-14	Oct-15	Apr-13	Oct-13	Oct-14	Oct-15
ZENECA	Zeneca (ICI Avecia, aka 'Zenica')	0.0021	0.0078	0.0007	0.0096	0.0052	0.0049	0.0039	0.0067	0.0021	0.0001	0.0021	0.0003	0.0008	0.0004	0.0008	0.0017
CENTRAX	Centrax Industrial	0.0275	0.0334	0.0268	0.0365	0.0306	0.0304	0.0300	0.0335	0.0275	0.0244	0.0282	0.0272	0.0262	0.0259	0.0269	0.0286
CHOAKFORD	Lyneham (Choakford)	0.0304	0.0364	0.0300	0.0398	0.0335	0.0335	0.0332	0.0368	0.0304	0.0274	0.0314	0.0305	0.0291	0.0290	0.0301	0.0319
WEST_BURTON_PS HATFIELD_POWER_STA TION	West Burton PS Hatfield Power Station	0.0061	0.0121	0.0052	0.0143	0.0092	0.0092	0.0084	0.0113	0.0061	0.0031	0.0066	0.0050	0.0048	0.0047	0.0053	0.0064
AM_PAPER	Ferny Knoll (AM Paper)	0.0196	0.0261	0.0223	0.0293	0.0226	0.0232	0.0255	0.0264	0.0196	0.0171	0.0237	0.0201	0.0183	0.0187	0.0224	0.0215
SEVERNSIDE_ICI	Terra Nitrogen (aka ICI, Terra Severnside)	0.0183	0.0237	0.0167	0.0261	0.0214	0.0208	0.0199	0.0231	0.0183	0.0147	0.0181	0.0168	0.0170	0.0163	0.0168	0.0182
Willington	Willington Power Station	#N/A	#N/A	0.0128	0.0221	#N/A	#N/A	0.0160	0.0191	#N/A	#N/A	0.0142	0.0128	#N/A	#N/A	0.0129	0.0142
TILBURY_PS	Tilbury Power Station	0.0130	0.0193	0.0126	0.0219	0.0161	0.0163	0.0159	0.0190	0.0130	0.0103	0.0140	0.0127	0.0117	0.0118	0.0127	0.0140
BACTON_Deborah	Deborah Storage (Bacton)	0.0011	0.0067	0.0001	0.0084	0.0041	0.0037	0.0027	0.0054	0.0011	0.0001	0.0009	0.0001	0.0001	0.0001	0.0001	0.0005
COCKENZIE	Cockenzie Power Station	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
HILLTOP	Hill Top Farm (Hole House Farm)	0.0233	0.0300	0.0239	0.0335	0.0263	0.0271	0.0271	0.0306	0.0233	0.0210	0.0253	0.0243	0.0220	0.0226	0.0240	0.0256

9 Appendix B – Further detail on reviewing current arrangements

- 9.1 In May 2012 National Grid published final NTS Exit Capacity charges for the twelve months from October 2012. Along with these final prices, indicative values for the following three years were also published. The values were based on National Grid's March 2012 RIIO-T1 submission. In Table 9.1 below, the revenues used for the calculation of NTS Exit Capacity charges are shown along with the average exit capacity price, averaged across all Exit Zones.

Table 9.1 – Revenues and resulting average zonal NTS Exit Capacity charges – March 2012 RIIO-T1 Submission

RIIO-T1 National Grid March 2012 submission	2012/2013	2013/2014	2014/2015	2015/2016
	Oct-12	Oct-13	Oct-14	Oct-15
Revenues used for setting charges (£m)	342	523	334	598
Average Zonal NTS Exit Capacity charges (p/pdkWh/day)	0.0119	0.0177	0.0115	0.0201

- 9.2 Looking at the average zonal exit price there is a large degree of change between years, increasing from 2012/13 to 2013/14 then decreasing to 2014/15 then increasing again to 2015/16. These swings are as a result of the under and over recovery adjustment taking place in the October prices to ensure allowed revenues are recovered in each formula year.
- 9.3 To show a comparison of how the volatility may look under another revenue scenario, in July 2012 Ofgem published their RIIO-T1 Initial Proposals and these contained a different set of values for revenues over the RIIO-T1 period. By means of comparison, Table 9.2 below shows the revenues for the same period as was outlined in the May 2012 publication of NTS Exit Capacity charges, going up to 2015/16, along with the average zonal Exit charge.

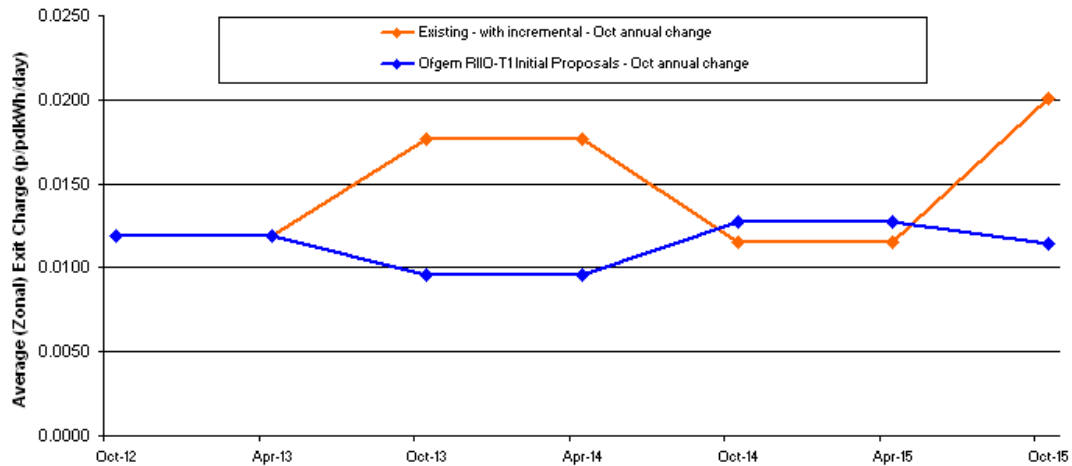
Table 9.2 - Revenues and resulting average zonal NTS Exit Capacity charges – July 2012 RIIO-T1 Initial Proposals

RIIO-T1 Ofgem Initial Proposals	2012/2013	2013/2014	2014/2015	2015/2016
	Oct-12	Oct-13	Oct-14	Oct-15
Revenues used for setting charges (£m)	342	273	371	328
Average Zonal NTS Exit Capacity charges (p/pdkWh/day)	0.0119	0.0095	0.0128	0.0114

- 9.4 Looking at the average zonal exit charge there is a still a degree of change between years where we see a decrease from 2012/13 to 2013/14 then an increase to 2014/15 then a decrease again to 2015/16. These swings are also a result of the over and under recovery adjustment taking place in the October prices to ensure allowed revenues are recovered in each formula year.

- 9.5 Comparing the two revenue scenarios, the volatility over time is shown in chart 9.1 below:

Chart 9.1 – Comparison of average zonal charges between Existing publication and Ofgem RIIO Initial Proposals



- 9.6 What can be seen is that depending on the revenue change taking place at least one year, this volatility and fluctuating prices from year to year will continue as can be seen in the above comparison of the two revenue scenarios where charges do fluctuate each time they are expected to change, in every October.
- 9.7 Such volatility would continue until either the allowed revenue from one price control to another remained broadly consistent or until there is a correcting element such as a one-off change to act as a stabiliser.

10 Appendix C – Further detail on changing the timing of price changes

10.1 If revenues were stable the issue of under or over recovery is lessened as this reduces any variances in setting charges. Where revenues do change (either increasing or decreasing) from one year to the next it will result in swings in NTS Exit Capacity charges that fluctuate each year they are set to ensure that actual revenues are matching the allowed revenues in each formula year.

10.2 Whilst the values are currently unknown, such a change may take place when moving into the new price control settlement period for RIIO-T1, April 2013 to March 2021 Two revenue scenarios that can be modelled are:

- National Grid's March 2012 RIIO-T1 submission; and
- Ofgem's July 2012 RIIO-T1 Initial Proposals

10.3 It is these two revenue scenarios that are used throughout this discussion document and that have been discussed at recent NTS CMF's in July and September 2012. If we introduce the April 2013 one off change, then the impact on the revenues used for charge setting would be as outlined in table 10.1 below.

Table 10.1 – Revenues for setting NTS Exit Capacity charges excluding and including April one-off change

Revenues used for setting charges (£m)	2012/2013	2013/2014	2013/2014	2014/2015	2014/2015	2015/2016	2015/2016
	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Oct-15
RIIO-T1 National Grid March 2012 submission ("As is") October Setting only	342	342	523	523	334	334	598
RIIO-T1 National Grid March 2012 submission ("As is") with April 2013 one off	342	432	432	432	424	424	507
RIIO-T1 Ofgem Initial Proposals October setting only	342	342	273	273	371	371	328
RIIO-T1 Ofgem Initial Proposals with April 2013 one off	342	307	307	307	336	336	362

10.4 Using these revenues and calculating the average zonal charges through the Transportation Model give the charges as shown in Table 10.2 below.

Table 10.2 – Average zonal NTS Exit Capacity charges including and excluding April one off change

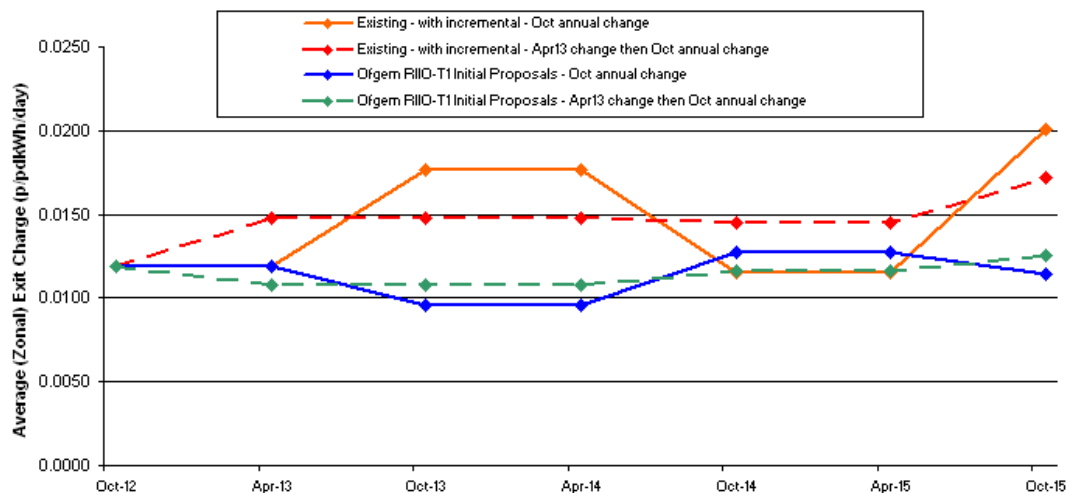
Average Zonal NTS Exit Capacity charges (p/pdkWh/day)	2012/2013	2013/2014	2013/2014	2014/2015	2014/2015	2015/2016	2015/2016
	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Oct-15
RIIO-T1 National Grid March 2012 submission ("Existing") October Setting only	0.0119	0.0119	0.0177	0.0177	0.0115	0.0115	0.0201
RIIO-T1 National Grid March 2012 submission ("Existing ") with April 2013 one off	0.0119	0.0148	0.0148	0.0148	0.0145	0.0145	0.0172
RIIO-T1 Ofgem Initial Proposals October setting only	0.0119	0.0119	0.0095	0.0095	0.0128	0.0128	0.0114
RIIO-T1 Ofgem Initial Proposals with April 2013 one off	0.0119	0.0108	0.0108	0.0108	0.0116	0.0116	0.01260

10.5 A comparison of the two revenue scenarios with the two charge setting options;

- Setting annually on October; and
- Setting in April 2013 for six months only then continuing with October annual setting from October 2013 onwards

10.6 This is shown on chart 10.1 below.

Chart 10.1 - Comparison of average zonal charges between Existing publication and Ofgem RIIO Initial Proposals with and without an April one off change



10.7 In comparing the dotted lines representing the revenue scenarios incorporating the April 2013 charge change to the solid lines representing October changes only it can be seen the degree to which the volatility is reduced, lessening the size of the changes seen in charges from year to year.

10.8 Reviewing these average charges, what can be seen is a reduction in the volatility in the changes over time. Having a one-off change for April 2013 updating charges for six months from April 2013 to September 2013 then following the normal UNC process of updating in October 2013

11 Appendix D – Further detail on the main drivers of volatility

11.1 In reviewing the volatility seen in NTS Exit Capacity charges, by far the greatest contributor to volatility is the allowed revenue changes and the method of its inclusion into setting charges.

11.2 The main contributory elements to the volatility of charges are (not considered as part of this discussion paper) aside from the misalignment of gas and formula year are:

- TO Allowed Revenue – changes from year to year of the TO MAR
- Supply / Demand flows – Supply and demand changes in the Transportation Model
- Expansion Constant – unit cost that is part of the transportation model based on the costs of constructing NTS Capacity
- Changes to the Network – used in the transportation model

11.3 As changes to allowed revenue are the most significant contributing element to the volatility in comparison to the others listed here it is this area that has been made the focus of this discussion document and recent discussions with industry at NTS CMF.

11.4 The influence of changes in these elements on the NTS Exit Capacity Prices by NTS Exit Zone for 2012/13 to 2015/16 is shown in the charts 11.1, 11.2 and 11.3, that have previously been shown at the July 2012 NTS CMF.

Chart 11.1 – Constituent parts of the NTS Exit Capacity charge change from 2012/13 to 2013/14

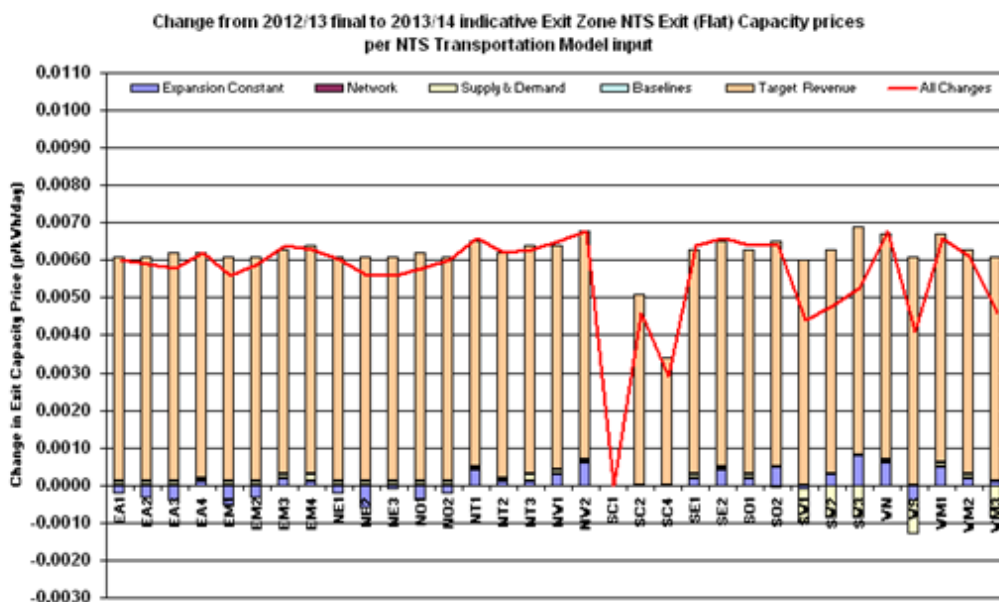


Chart 11.2 - Constituent parts of the NTS Exit Capacity charge change from 2013/14 to 2014/15

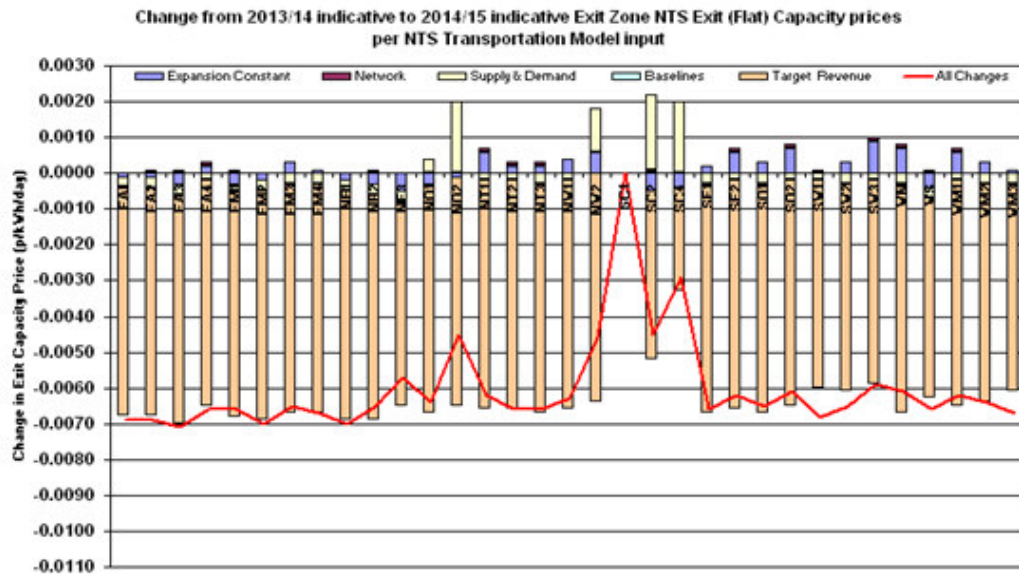
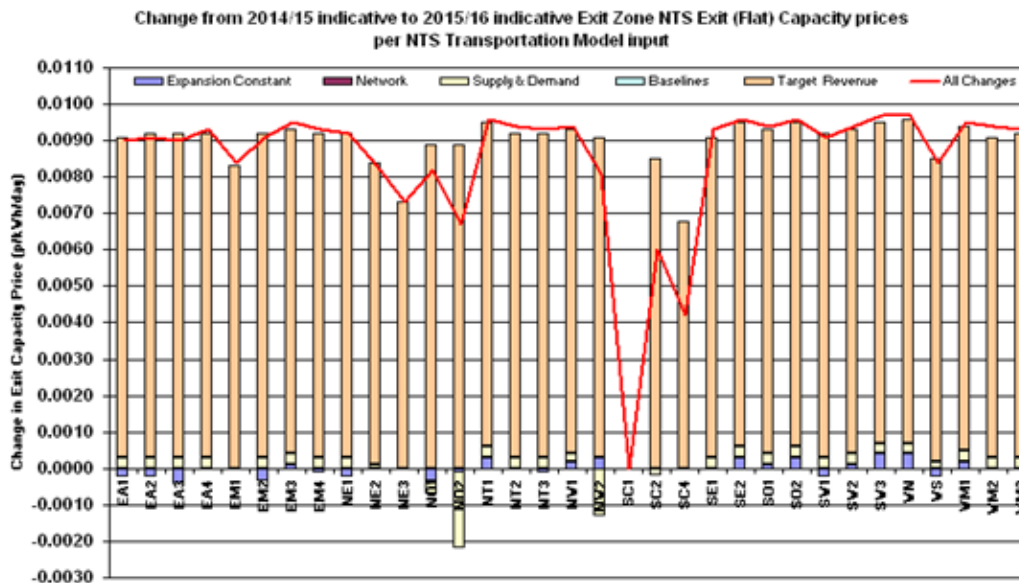


Chart 11.3 - Constituent parts of the NTS Exit Capacity charge change from 2014/15 to 2015/16



11.5 What is shown in all three of the above charts profiling changes between years is that the allowed revenue is the largest contributor to the changes in NTS Exit Capacity charges. Whilst the other elements, such as supply and demand changes do contribute to the changes between years the proportion they contribute to the level of change is minimal when looking at the average zonal NTS Exit Capacity charges¹².

¹² These are based on average zonal charges and should not be taken as specific Exit Points. Indicative Exit Point charges are available in Appendix A.