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# ET1 Price Control Financial Handbook

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## Overview:

This is the ET1 Price Control Financial Handbook which forms part of Special Condition 5A (Governance of ET1 Price Control Financial Instruments) of the Electricity Transmission Licence held by onshore electricity transmission operators.

This document consists of:

- a) a description of the ET1 Price Control Financial Model (PCFM) and the Annual Iteration Process for it, used to update the licensee's base revenue allowances during the course of the RIIO-T1 Price Control Period;
- b) an overview of the ET1 Price Control Financial Methodologies under which revisions to the variable values in the PCFM are determined for the Annual Iteration Process, in accordance with the Special Conditions of the licence; and
- c) a series of Chapters containing the detailed methodologies relating to PCFM Variable Values.

The procedures relating to modification of this Handbook and the PCFM are contained in Special Condition 5A.

An up to date version of this handbook and the PCFM (in Microsoft Excel® format) can be accessed on the Ofgem website.

## Context

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The RIIO-T1 price control arrangements are the first to apply Ofgem's RIIO framework (Revenue = Incentives + Innovation + Outputs). The RIIO approach places more emphasis on incentivising network owners and managers to achieve the outputs needed to deliver sustainable energy networks at value for money for existing and future consumers.

The RIIO-T1 price control is longer than the previous transmission price controls (known as TPCR), running for eight years instead of five. This provides for a longer period of settled price control arrangements and should facilitate improved strategic planning and a long term approach to electricity transmission infrastructure management.

However, the RIIO price control mechanisms are also more dynamic. Under the TPCR price controls, base revenue allowances typically representing over 80 per cent of network operation revenues, were set up-front for the whole of the Price Control Period, changing only with RPI indexation. A number of significant adjustments to reflect activity levels and varying financial conditions were necessarily left in abeyance until the subsequent five-yearly review. Under RIIO-T1, comprehensive adjustments to base revenue will be made each year in respect of the licensee's Transmission Owner (TO) role and, for National Grid Electricity Transmission plc, System Operator (SO) role.

This more sophisticated approach involves an annual iteration of the ET1 Price Control Financial Model (PCFM) using updated variable values. This gives rise to a requirement for licence conditions and methodologies to govern the determination of revised PCFM Variable Values and the Annual Iteration Process.

This Handbook (which forms part of Special Condition 5A) sets out the required processes and methodologies. To promote transparency, up to date copies of both the handbook and the PCFM will be maintained on the Ofgem website.

## Associated documents

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a. [ET1 Price Control Financial Model](#)

[http://www.ofgem.gov.uk/Networks/Trans/PriceControls/RIIO-T1/ConRes/Documents1/SD2\\_SPTL\\_ET1\\_Price\\_Control\\_Financial\\_Model.xlsx](http://www.ofgem.gov.uk/Networks/Trans/PriceControls/RIIO-T1/ConRes/Documents1/SD2_SPTL_ET1_Price_Control_Financial_Model.xlsx)

b. [RIIO-T1 Price Control Final Proposals](#)

[http://www.ofgem.gov.uk/Networks/Trans/PriceControls/RIIO-T1/ConRes/Documents1/1\\_RIIOT1\\_FP\\_overview\\_dec12.pdf](http://www.ofgem.gov.uk/Networks/Trans/PriceControls/RIIO-T1/ConRes/Documents1/1_RIIOT1_FP_overview_dec12.pdf)

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# Introduction

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The ET1 Price Control Financial Handbook is one of the Price Control Financial Instruments referred to in Special Condition 5A (Governance of ET1 Price Control Financial Instruments) of the Electricity Transmission Licence. It describes the ET1 Price Control Financial Model ('PCFM') and the Annual Iteration Process for it, by which annual adjustments to the licensee's base revenues will be calculated. It also contains the Price Control Financial Methodologies ('the methodologies'), specified in relevant Special Conditions, which will be used to determine appropriate revisions to the variable values contained in the PCFM to facilitate calculations under the Annual Iteration Process. The methodologies also describe the intent and effects of revising the various PCFM Variable Values.

This handbook, the constituent methodologies and the PCFM (together the Price Control Financial Instruments) form parts of Special Condition 5A. The Price Control Financial Instruments are subject to a formal change control process set out in that condition.

The PCFM Annual Iteration Process approach has been adopted because:

- it is consistent with the aims of the RIIO price control, embodying more 'real time' adjustments to financial allowances;
- it handles complex computational interactions between financial adjustments without the need for unwieldy algebra on the face of Special Conditions;
- it provides for consistent treatment of the Totex<sup>1</sup> aspects of the price control;
- it maintains transparency on adjustments to base revenues, since the licence, methodologies, PCFM and variable values will be published; and
- it allows stakeholders to keep abreast of allowed revenue levels and to carry out business sensitivity analysis.

In any case of conflict of meaning, the following order of precedence applies:

- i. the main text of the relevant licence condition(s),
- ii. the handbook and constituent methodologies, and
- iii. the PCFM.

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<sup>1</sup> Total Expenditure – see Glossary

## Terms used in this handbook

### *References to the Authority and Ofgem*

The Gas and Electricity Markets Authority (“the Authority”) is established by section 1 and Schedule 1 to the Utilities Act 2000. The Office of the Gas and Electricity Markets Authority (“Ofgem”) is the office that supports the Authority.

In this handbook the text refers to the Authority and Ofgem interchangeably.

### *Other terminology*

Throughout this handbook:

- (a) ‘the licence’ means an Electricity Transmission Licence containing Special Conditions held by an onshore electricity transmission network operator;
- (b) references to ‘the licensee’ include each electricity transmission network operator that holds an Electricity Transmission Licence containing Special Conditions;
- (c) ‘this handbook’ means the ET1 Price Control Financial Handbook;
- (d) ‘Special Condition’ means a Special Condition contained in the Electricity Transmission Licence held by onshore electricity transmission network operators; and
- (e) ‘Price Control Period’ means the RIIO-T1 Price Control Period which runs from 1 April 2013 to 31 March 2021.

Where the meaning of other terms used in this handbook is not clear from the context, they will either be defined/explained in the Chapter concerned or in the appended Glossary.

# 1. The ET1 Price Control Financial Model and the Annual Iteration Process

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## Overview

1.1. Special Conditions 3A and 4A respectively specify the Transmission Owner (TO) and, for National Grid Electricity Transmission plc (NGET), System Operator (SO) opening base revenue<sup>2</sup> levels for the licensee for each Relevant Year of the Price Control Period, reflecting the Authority's Final Proposals for the RIIO-T1 price control settlement.

1.2. The ET1 Price Control Financial Model (PCFM) has been designed to calculate incremental changes to the licensee's opening base revenues for each Relevant Year so that the updated base revenue allowances reflect the adjustment schemes specified in the licence and detailed in the methodologies in this handbook. The adjustments fall into three broad categories:

- legacy price control adjustments – the close out of schemes and mechanisms from preceding Price Control Periods;
- financial adjustments covering tax, pension and cost of debt issues; and
- adjustments relating to actual and allowed Totex<sup>3</sup> expenditure and the Totex incentive mechanism.

1.3. The calculations take place under the Annual Iteration Process for the PCFM described below and are manifested as a PCFM output value for the term 'MOD' which is then applied as shown in the simplified formula below:

Base Revenue for year t = opening base revenue for year t + MOD for year t.

1.4. For NGET, there is a similar term, 'SOMOD' which applies to the System Operator part of that licensee's price control. Information relating to the term MOD in this Chapter, and in Chapter 2 is also relevant to the term SOMOD in the context of the System Operator price control.

## Price base

1.5. The PCFM works predominantly in a constant 2009-10 price base. This is consistent with the opening base revenue values set down in the licence. The value of the term MOD is calculated in 2009-10 prices. Indexation is provided for in the base revenue formula set out in the Special Conditions.

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<sup>2</sup> Base Revenue is the largest component of the licensee's overall Allowed Revenue

<sup>3</sup> See Glossary

1.6. Some tax calculations internal to the PCFM use nominal prices, based on embedded RPI forecast data. The use of nominal prices in the PCFM tax calculations ensures that revenue allowance calculations more accurately reflect the profile of tax expenses of the licensee.

1.7. Where a methodology in this handbook requires values to be deflated from a nominal price base, used in price control review information reporting, to the 2009-10 price base used in the PCFM, the following formula will be used:

$$\text{value}_{2009-10} = \text{value}_{\text{nominal price year}} \times \frac{\text{RPI}_{2009-10}}{\text{RPI}_{\text{nominal price year}}}$$

where:

- $\text{value}_{2009-10}$  means the deflated value in the 2009-10 price base;
- $\text{value}_{\text{nominal price year}}$  means the value in nominal prices, used in price control review information reporting;
- $\text{RPI}_{2009-10}$  means the arithmetic average of the Retail Prices Index (all items) figures published by the Office for National Statistics for each calendar month in Relevant Year 2009-10 rounded to three decimal places; and
- $\text{RPI}_{\text{nominal price year}}$  means the arithmetic average of the Retail Prices Index (all items) figures published by the Office for National Statistics for each calendar month in the Relevant Year referred to in the price control review information in question rounded to three decimal places.

### Temporal convention

1.8. As indicated above, the MOD term is used to adjust the opening base revenue figure for each Relevant Year  $t$  during the Price Control Period.<sup>4</sup> References in this handbook to Relevant Years are made relative to that usage. For example, in a context where  $\text{MOD}_t$  applied in the formula for base revenue in 2015-16, a reference in the same context to Relevant Year  $t-1$  would mean 2014-15 and so on.

## The Price Control Financial Model and the Annual Iteration Process

1.9. The PCFM exists as a constituent part of Special Condition 5A (Governance of ET1 Price Control Financial Instruments). It has an input area for each licensee containing both fixed values and a PCFM Variable Values table. The base revenue figure for each licensee for each Relevant Year of the Price Control Period is

<sup>4</sup> In 2013-14, the first year of the Price Control Period, the licence specifies that the value of MOD is zero.



calculated using the fixed values, the PCFM Variable Values, and the formulae and functions embedded in the PCFM.

1.10. At the outset of the Price Control Period, the base revenue figures calculated by the PCFM, using the variable values subsisting at that time, constitute the opening base revenue values for the licensee. Before the calculation of opening base revenues are performed, Ofgem will commission an external audit of the functionality of the PCFM.

1.11. Subject to paragraph 1.12, by 30 November in each Relevant Year t-1, or as soon as is reasonably practicable thereafter, Ofgem will determine whether any PCFM variable values for the licensee should be revised in accordance with the Special Conditions and methodologies referred to in Chapters 3 to 15 of this handbook.

1.12. The last Relevant Year in which there will be an Annual Iteration Process for the ET1 Price Control Financial Model is Relevant Year 2019-20 for the purpose of determining the value of the term MOD for Relevant Year 2020-21.

1.13. In order to facilitate the determination of revised PCFM Variable Values by 30 November, Ofgem will normally expect to apply the following annual cut-off dates:

- (a) 30 September in respect of functional changes to the ET1 Price Control Financial Model; and
- (b) 31 October in respect of information submitted by the licensee and used under the Price Control Financial Methodologies.

1.14. In applying the cut-off referred to in paragraph 1.13(b), Ofgem will, through business correspondence, apprise the licensee of any provisionality it has attached to information submissions, which might entail a restatement of the information by the licensee for the purpose of making a further revision to the PCFM Variable Value(s) concerned for use in a subsequent Annual Iteration Process.

1.15. The Authority will give the licensee at least 14 days notice of any revised PCFM Variable Values in accordance with requirements in the licence, to allow for any representations. The Authority will then (by 30 November in Relevant Year t-1, or as soon as is reasonably practicable thereafter) specify any PCFM Variable Value revisions in a formal direction to the licensee. The direction will also include a 'screenshot' of the PCFM Variable Values table for the licensee, showing the state of all variable values after the directed revisions, with revised values emboldened.

1.16. Having directed revisions to PCFM Variable Values for the licensee, Ofgem will carry out the Annual Iteration Process:

- revised PCFM Variable Values will be inputted in the appropriate Relevant Year column of the PCFM Variable Values Table for the licensee;
- the PCFM calculation functions will be re-run;
- all calculated values within the PCFM will be automatically updated, including:

- (i). the base revenue figure for the licensee for each Relevant Year of the Price Control Period, and
- (ii). the modelled RAV balance for the licensee; and
- the PCFM will output the value of MOD for Relevant Year t for the licensee.

1.17. The output value of  $MOD_t$  for the licensee will reflect the difference between the recalculated base revenue figures for the licensee held in the PCFM before the Annual Iteration Process and the recalculated base revenue figures for the licensee held in the PCFM after the Annual Iteration Process recalculations. The PCFM calculations will apply appropriate Time Value of Money<sup>5</sup> adjustments to the calculation of  $MOD_t$ , so that the licensee will be in the same economic position as if adjustments to base revenue for years prior to Relevant Year t had been notified to it in the Relevant Year concerned.

1.18. Changes to base revenue figures calculated under the Annual Iteration Process may be upwards or downwards and, accordingly, the value of  $MOD_t$  may be positive or negative. A key point to note is that once the value of MOD has been directed for a particular Relevant Year, it is not retrospectively changed as a result of a subsequent Annual Iteration Process – the value becomes a matter of record alongside the opening base revenue value for the same year.

1.19. The steps of the Annual Iteration Process are specified in Special Condition 5B (Annual Iteration Process for the ET1 Price Control Financial Model).

1.20. The Authority will issue a direction to the licensee giving the value of  $MOD_t$  by 30 November in each Relevant Year t-1<sup>6</sup> or as soon as reasonably practicable thereafter. In practice, it is expected that the value of  $MOD_t$  will be included in the direction of revised PCFM Variable Values referred to in paragraph 1.15. The value of  $MOD_t$  in the direction will be stated in £m to one decimal place.

1.21. The deadline of 30 November in Relevant Year t-1 for the direction of PCFM Variable Value revisions and for the value of  $MOD_t$  reflects:

- the deadline of 31 July in Relevant Year t-1 by which the licensee must submit its price control information returns (covering activity in Relevant Year t-2) to Ofgem; and
- the need for the licensee to have confirmation of its base revenue for Relevant Year t, in time to calculate and issue its indicative use of system charges by 31 December in Relevant Year t-1<sup>7</sup>.

1.22. In the unlikely event that the Authority does not direct a value for  $MOD_t$  by 30 November in Relevant Year t-1, paragraphs 11 to 13 of Special Condition 5B specify that:

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<sup>5</sup> See Glossary

<sup>6</sup> The first such direction will be given by 30 November 2013.

<sup>7</sup> SHE Transmission plc and SP Transmission Ltd notify their allowed revenues to National Grid Electricity Transmission plc for charging purposes by 31<sup>st</sup> October.

- the Annual Iteration Process will stand uncompleted;
- the Authority will complete the Annual Iteration Process as soon as reasonably practicable by directing a value for  $MOD_t$ ; and
- in the intervening period, the value of  $MOD_t$  shall be held to be equal to the value ascertained by:
  - (i). taking a copy of the ET1 Price Control Financial Model in its state following the last completed Annual Iteration Process (excluding the effect of any functional modifications under Special Condition 5A made after the completion of that Annual Iteration Process);
  - (ii). using the selection facilities on the user interface sheet contained in that copy to select:
    - the name of the licensee; and
    - the Relevant Year equating to Relevant Year  $t$ ; and
  - (iii). recording the values of the term  $MOD_t$  for the licensee that is shown as an output value.

1.23. Table 1.1 below summarises the timings for the Annual Iteration Process during the Price Control Period.

**Table 1.1 Summary of timings for the Annual Iteration Process**

<b>Annual Iteration Process</b>					
<b>AIP month</b>	<b>PCFM Functional change cut-off</b>	<b>Regulatory reporting information cut-off</b>	<b>Proposed PCFM Variable Value revisions</b>	<b>AIP completed and <math>MOD_t</math> directed</b>	<b>Relevant Year <math>t</math> in which <math>MOD_t</math> applies</b>
Nov-13	30 Sep 13	31 Oct 13	15 Nov 13	30 Nov 13	<b>2014-15</b>
Nov-14	30 Sep 14	31 Oct 14	15 Nov 14	30 Nov 14	<b>2015-16</b>
Nov-15	30 Sep 15	31 Oct 15	15 Nov 15	30 Nov 15	<b>2016-17</b>
Nov-16	30 Sep 16	31 Oct 16	15 Nov 16	30 Nov 16	<b>2017-18</b>
Nov-17	30 Sep 17	31 Oct 17	15 Nov 17	30 Nov 17	<b>2018-19</b>
Nov-18	30 Sep 18	31 Oct 18	15 Nov 18	30 Nov 18	<b>2019-20</b>
Nov-19	30 Sep 19	31 Oct 19	15 Nov 19	30 Nov 19	<b>2020-21</b>

*State of the ET1 Price Control Financial Model*

1.24. As set out in paragraph 1.9 above, the PCFM exists as a constituent part of Special Condition 5A and will be maintained by Ofgem in its official records. The state of the PCFM remains constant unless and until changed by either:

- (a) an Annual Iteration Process - which will change PCFM Variable Values and recalculated values which are directly or indirectly dependent upon them; or
- (b) a modification of the PCFM under the procedures set out in Special Condition 5A (Governance of ~~GT1-ET1~~ Price Control Financial Instruments).

1.25. Ofgem will keep a log of modifications to the PCFM.

1.26. A copy of the PCFM in its latest state will be maintained on the Ofgem website. This will allow the licensee and other stakeholders to make copies of the PCFM so that they can:

- use their own forecasts of PCFM Variable Value revisions to forecast base revenue positions and to conduct sensitivity analysis; and
- reproduce the calculation of  $MOD_t$  by 30 November in each Relevant Year t-1.

The model is designed to be as 'user friendly' as possible for this purpose.

1.27. An updated copy of the PCFM will be uploaded to the website by 30 November each year (after each Annual Iteration Process) and the file will be named "ET1 Price Control Financial Model 20XX-XX" (where 20XX-XX represents Relevant Year t-1).

*Error of functionality in the PCFM*

1.28. In the event that an error of functionality is discovered in the PCFM, the following procedure would be followed:

- the issue would be considered at the earliest opportunity by the ET1 Price Control Financial Model Working Group (see next section) and a corrective modification determined by Ofgem;
- if the functional error had distorted the calculation of a previously directed value of the term  $MOD$ , the determined modification would include any adjustments necessary to correct for that distortion on an NPV neutral basis in the next calculation of the term  $MOD_t$ ; and
- the procedure in Special Condition 5A for modifications to the PCFM would be followed.

## The ET1 Price Control Financial Model Working Group

1.29. Ofgem will facilitate an industry expert working group to review issues arising with respect to the form or usage of the PCFM. The terms of reference for The ET1 Price Control Financial Model Working Group ('the working group') are set out below.

1.30. In accordance with the provisions of Part A of Special Condition 5A (Governance of ET1 Price Control Financial Instruments), the Authority will have regard to any views expressed by the working group when assessing whether any proposed modification of the PCFM would be likely to have a significant impact on the licensee or other stakeholders.

### Terms of reference

#### *Purposes of the working group*

1.31. The purposes of the working group are:

- (i). to review the ongoing effectiveness of the PCFM in producing a value for the term MOD for each Relevant Year, that appropriately adjusts the licensee's opening base revenue so that its allowed expenditures and performance under incentive schemes are properly reflected;
- (ii). to provide, when requested by the Authority, its views on the impact of any proposed modifications to the PCFM in accordance with Part A of Special Condition 5A; and
- (iii). to provide such views or recommendations to the Authority with regard to the PCFM as it sees fit.

#### *Composition*

1.32. The composition of the group will be:

- Ofgem (chair);
- Ofgem (secretary);
- one representative per licensee; and
- ENA representative (optional).

#### *Timing and duration of the group's work*

1.33. The working group's incumbency will run from 1 April 2013 to 31 March 2021.

1.34. The group will meet at least once between 1 January and 31 July during each calendar year, but may meet more frequently if required, in particular in relation to the provision of views on the impact of proposed PCFM modifications (see paragraph 1.31(ii)).

1.35. Representatives may attend meetings in person, or at the discretion of the chair, through video or telephone conferencing facilities.

1.36. A meeting of the working group will be quorate, for the purpose of expressing a view or recommendation in respect of the PCFM, if at least one representative from Ofgem (which may be the chair), and three licensee representatives (each from a different licensee) are present.

*Resources*

1.37. Meeting facilities will be provided or coordinated by Ofgem. Ofgem will keep notes of key points of discussion and views expressed at meetings, and of any recommendations made by the working group with respect to the PCFM.

## 2. The ET1 Price Control Financial Methodologies

2.1. The ET1 Price Control Financial Methodologies set out in this handbook describe the basis for a range of annual adjustments to the licensee's opening base revenue allowances for the purposes of the RIIO-T1 price control arrangements.

2.2. The main purpose of each methodology is to set out the way in which one or more PCFM Variable Values are to be revised for the purposes of the Annual Iteration Process for the ET1 Price Control Financial Model (PCFM) under which values of the term  $MOD_t$  are calculated (see Chapter 1). Any revised PCFM Variable Values determined under the methodologies will replace (over-write) the existing values contained in the PCFM Variable Values Table for the licensee in the PCFM as part of the Annual Iteration Process.

2.3. The methodologies are presented in Chapters 3 to 15 of this handbook and are referenced in the associated Special Conditions of the licence. As constituent parts of this handbook, the methodologies are part of Special Condition 5A (Governance of ET1 Price Control Financial Instruments) and are subject to the modification provisions set out in that condition.

2.4. The methodologies are subordinate to the Special Conditions of the licence. If there is any inconsistency between a licence condition and a methodology, then the licence condition takes precedence.

### Methodologies in this handbook

2.5. The PCFM Variable Values to be determined under the methodologies in this handbook are listed in Table 2.1 below. PCFM Variable Values whose names begin with "SO" are applicable to National Grid Electricity Transmission plc only and relate to the System Operator aspects of its business.

**Table 2.1**

No	PCFM Variable Value	Special Condition	Description	Type of variable value
<u>Specified financial adjustments</u>				
1	EDE SOEDE	6D/7C	Pension Scheme Established Deficit	revenue allowance
2	APFE SOAPFE	6D/7C	Pension Scheme Administration costs and Pension Protection Fund (PPF) levy	revenue allowance

No	PCFM Variable Value	Special Condition	Description	Type of variable value
3	TTE SOTTE	6D/7C	Tax liability – tax trigger events	revenue allowance
4	TGIE SOTGIE	6D/7C	Tax liability – gearing/interest costs	revenue allowance
5	CDE SOCDE	6D/7C	Allowed percentage cost of debt	percentage
<u>Totex incentive mechanism</u>				
6	ALC	6C	Actual load related capex expenditure	actual expenditure
7	ARC	6C	Actual asset replacement capex expenditure	actual expenditure
8	AOC	6C	Actual other capex expenditure	actual expenditure
9	ACO SOACO	6C/7B	Actual controllable opex	actual expenditure
10	ANC SOANC	6C/7B	Actual non-operational capex	actual expenditure
<u>Allowed Totex expenditure adjustments</u>				
11	IAEEPS/ SOIAEEPS	6H/7D	Uncertain costs - enhanced physical site security	allowed expenditure
12	IAEBT	6H	Uncertain costs – BT 21 <sup>st</sup> Century (SHETPLC only)	allowed expenditure
13	IAEWL	6H	Uncertain costs – compensation for wayleaves (SHETPLC only)	allowed expenditure
14	IAEWR	6H	Uncertain costs – workforce renewal (SPTL only)	allowed expenditure
15	WWE	6I	Baseline and strategic wider works expenditure	allowed expenditure
16	IWW	6J	Incremental wider works (NGET only)	allowed expenditure
17	GCE	6F	Generation connections volume driver	allowed expenditure



No	PCFM Variable Value	Special Condition	Description	Type of variable value
18	EPIE	6G	Enhancements to pre-existing infrastructure	allowed expenditure
19	IRM	6E	Innovation roll out mechanism	allowed expenditure
20	DUV	6K	Undergrounding volume driver	allowed expenditure
21	DIV	6L	Demand related infrastructure volume driver	allowed expenditure

Legacy price control adjustments

22	LAR/ SOLAR	6A/7A	Legacy price control adjustments to allowed revenue	true-up revenue allowance
23	LRAV/ SOLRAV	6A/7A	Legacy price control adjustments to RAV	true-up RAV additions

2.6. Specified financial adjustments (numbers 1 to 5 in Table 2.1) relate to the adjustment mechanisms set out in the 'Finance Supporting Document' in the RIIO-T1 Final Proposals<sup>8</sup>. Overviews of the adjustments and the methodologies for determining revisions to the associated PCFM Variable Values are contained in Chapters 3 to 5 of this handbook.

2.7. The Totex incentive mechanism (numbers 6 to ~~11-10~~ in Table 2.1) applies to any overspend or under spend by the licensee against its RIIO-T1 Totex expenditure allowances. An overview of the mechanism and the methodology for determining revisions to the associated PCFM Variable Values is contained in Chapter 6 of this handbook.

2.8. Allowed Totex expenditure adjustments (numbers 11 to 21 in Table 2.1) cover a range of Totex adjustment schemes under which allowed expenditure can be adjusted under a specified formula or through an application and assessment process. The methodologies for determining revisions to the associated PCFM Variable Values are contained in Chapters 7 to 14 of this handbook.

<sup>8</sup> For Scottish Power Transmission Ltd (SPTL) and SHE Transmission Plc (SHETPLC) see covering letter with licence consultation [Licence consultation letter](#)

2.9. Legacy price control adjustments relate to activities which took place in the Price Control Period prior to RIIO-T1 but in respect of which a financial adjustment is required because:

- the outturn data for Relevant Year 2012/13 was not available when opening base revenues for the Price Control Period were set;
- cost totals for items subject to true-up or logging-up were not available when opening base revenues for the Price Control Period were set; or
- it is possible for pre-RIIO-T1 expenditure allowances to be adjusted under the terms of a RIIO-T1 Special Condition.

### **Processing of different types of PCFM Variable Value under the Annual Iteration Process**

2.10. In general terms, the different types of variable value specified in Table 2.1 are processed under the Annual Iteration Process for the PCFM in the following ways:

#### Allowed expenditure

These amounts are modelled, subject to Totex Capitalisation Rates, as:

- (i). fast money – flowing directly to the base revenue figure for the Relevant Year to which the allowed expenditure relates; and
- (ii). additions to the licensee’s RAV in the Relevant Year to which the allowed expenditure relates, generating a slow money adjustment to allowed revenues through the cost of capital return, depreciation and Totex incentive mechanism.

#### Revenue allowance

These amounts flow directly to the base revenue figure for the Relevant Year to which the adjustment circumstance relates (although there will also be ancillary financial effects under the modelling treatment).

#### Percentage

This type of variable value applies to the cost of corporate debt only and revised values for Relevant Year t will flow into calculations of the return on RAV component of slow money.

#### Actual expenditure

This type of variable value applies to the Totex incentive mechanism only and revised values affect fast and slow money calculations for the Relevant Years concerned. These values will be obtained from the licensee’s Regulatory Reporting Pack (RRP) relating to Relevant Year t-2. Since the RRP contains values in nominal prices, these will be deflated to a 2009-10 price base using

published RPI data so that they are consistent with the 2009-10 price base used in the PCFM. The price base calculation will be made prior to direction into the model.

#### True-up revenue allowance

These amounts will usually flow directly to the base revenue figure for Relevant Year 2013-14, because they relate to activity levels or outturn values for the Price Control Period prior to RIIO-T1.

#### True-up RAV additions

These additions to the licensee's RAV generate a slow money adjustment to allowed revenues through the cost of capital return and depreciation.

### *Consequential adjustments*

2.11. During the Annual Iteration Process, appropriate automatic adjustments are also made as a consequence of revisions to PCFM Variable Values. For example, in some circumstances, as a result of automatic updates to the licensee's net debt and RAV figures under the Annual Iteration Process, updated equity issuance allowances could also be included in recalculated base revenue figures for the Relevant Years concerned.

### *Atypical revisions*

2.12. The ET1 Price Control Financial Methodologies describe the normal timing sequence for each PCFM Variable Value. For example, in relation to the generation connections volume driver (item 17 in Table 2.1) the normal sequence would be:

- activity level takes place in Relevant Year t-2;
- activity level reported to Ofgem by 31 July in Relevant Year t-1;
- revised PCFM Variable Value used in Annual Iteration Process to take place by 30 November in Relevant Year t-1 or as soon as reasonably practical thereafter (the variable value in the column equating to Relevant Year t-2 on the PCFM Variable Values Table is the one which is revised, since that is when the activity level took place); and
- incremental change to recalculated revenue position for Relevant Year t-2 flows through to value of  $MOD_t$  ie it affects base revenue in Relevant Year t.

2.13. A number of the Special Conditions provide for PCFM Variable Values to be directed for Relevant Years outside the normal sequence. Where this is the case, the procedures are explained in the relevant methodologies in this handbook.

## 3. Pension allowances - financial adjustment methodology

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### Part 1 - Overview

3.1. The opening base revenue<sup>9</sup> allowances ('PU' values) for the licensee set down in the Table at Appendix 1 to Special Condition 3A (Restriction of Transmission Network Revenue) include allowances for:

- (a) Pension Scheme Established Deficit repair expenditure; and
- (b) Pension Scheme Administration and Pension Protection Fund (PPF) levy expenditure,

for each Relevant Year of the Price Control Period.

3.2. For National Grid Electricity Transmission plc (NGET), the opening Base SO Internal Revenue allowances ('SOPU' values) set down in the Table at Appendix 1 to Special Condition 4A (Restriction on System Operator Internal Revenue) include similar allowances relating to the System Operator part of its business.

3.3. These allowances are represented, respectively, by the opening EDE, APFE, SOEDE and SOAPFE values<sup>10</sup> held in the PCFM Variable Values Table(s) for the licensee, contained in the ET1 Price Control Financial Model (PCFM) and are expressed in 2009-10 prices. Opening EDE, APFE, SOEDE and SOAPFE values are based on modelling assumptions and parameters applicable at the outset of the Price Control Period, consistent with Ofgem's pension principles (see paragraph 3.6).

3.4. The allowance levels will be updated during the Price Control Period by revising EDE, APFE, SOEDE and SOAPFE values for the purposes of the Annual Iteration Process for the PCFM. This Chapter sets out:

- the reasons for updating allowances;
- the methodologies for determining revised EDE, APFE, SOEDE and SOAPFE values;
- the expected timing of revisions; and
- the effect on the licensee's base revenues of revising EDE, APFE, SOEDE and SOAPFE values for the Annual Iteration Process.

3.5. In the context of Pension Scheme Established Deficit repair and Pension Scheme Administration/PPF levy expenditure, we refer to "allowances" rather than "allowed expenditure". This is because, subject to the reasonableness tests referred

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<sup>9</sup> 'Base Transmission Revenue'

<sup>10</sup> as at 1 April 2013

to in this Chapter, EDE, APFE, SOEDE and SOAPFE values are added in full to recalculated base revenue figures in the PCFM under the Annual Iteration Process – ie the amounts are treated as 100 per cent fast money.<sup>11</sup> It should be noted, however, that revisions to EDE, APFE, SOEDE and SOAPFE values will have ancillary effects on other calculations under the Annual Iteration Process which also feed into recalculated base revenue figures.

### Price control pension principles

3.6. Ofgem’s price control pension principles are set out in full in the March 2011 decision on strategy for the RIIO-T1 price control (the March Strategy Document), together with the updated guidance notes in the Final Proposals, to which reference must be made<sup>12</sup>. In summary, they include the following key points:

- customers should expect to fund the efficient cost of providing a competitive employment package including pensions costs in line with comparative benchmarks;
- customers should only fund the portion (of a wider group’s pension costs) that is attributable to the transmission business;
- customers should not fund pension costs arising from a material failure of stewardship;
- pension costs should be assessed actuarially, using reasonable assumptions in line with current best practice;
- under or over funding positions in preceding Price Control Periods should be reflected in allowances, subject to being economic and efficient; and
- customers will not fund pension costs relating to severance arrangements.

### Pension Scheme Established Deficit

3.7. For the purposes of Special Condition 6D (Specified financial adjustments), 7C (Specified financial adjustments – System Operator) and this Chapter, the term ‘Pension Scheme Established Deficit’ means the difference between the assets and corresponding liabilities within a defined benefit pension scheme, sponsored by the licensee, which are:

- attributable to the licensee’s transmission business; and
- attributable to pensionable service up to and including 31 March 2012.

3.8. The proportion of a wider group pension scheme deficit which is attributable to the licensee’s transmission business will be determined in accordance with the pension deficit allocation methodology published by Ofgem. This amount may be adjusted by Ofgem informed by the results of the reasonableness review.<sup>13</sup>

<sup>11</sup> See Glossary

<sup>12</sup> <http://www.ofgem.gov.uk/Networks/GasDistr/RIIO-GD1/ConRes/Documents1/GD1decisionfinance.pdf>

<sup>13</sup> See March Strategy Document

3.9. For NGET, the Pension Scheme Established Deficit is further divided between the Transmission Operator (TO) and System Operator (SO) parts of its transmission business in accordance with Ofgem's pension deficit allocation methodology.

3.10. Allowances for Pension Scheme Established Deficit repair are set at/revised to levels intended to allow the licensee to clear its Pension Scheme Established Deficit (by making payments to the pension scheme's trustees) over a 15 year period, which began on 1 April 2012 (the Cut-Off date) and ends on 31 March 2027. The RIIO-T1 Price Control Period ends on 31 March 2021, but EDE and SOEDE values will be determined having regard to the Pension Scheme Established Deficit repair completion date of 31 March 2027.

### **Pension Scheme Administration and PPF levy**

3.11. For the purposes of Special Conditions 6D, 7C and this Chapter, Pension Scheme Administration means the range of activities that pension scheme trustees are required by legislation to undertake or commission in running the pension scheme. It includes, without limitation, the keeping of scheme records, scheme management and administration, scheme policy and strategy, the provision of information to scheme members, the calculation and payment of benefits and liaison with tax and regulatory authorities, and the preparation of valuations. It does not include investment management fees which are remunerated by deduction from investment returns; or any activities which are the responsibility of the licensee, such as advisors to the licensee on managing or advising it on any and all aspects of its relationship with the trustees including recovery plans.

3.12. Pension Scheme Administration expenditure refers to payments made by the licensee to cover the proportion of scheme administration costs attributable to its transmission business.

3.13. The Pension Protection Fund charges an annual levy on eligible pension schemes. PPF levy expenditure refers to payments made by the licensee (or the pension scheme) to cover the proportion of this levy attributable to its transportation business.

3.14. For NGET, these two items of expenditure are apportioned between the TO and SO part of its transmission business.

### **Costs and adjustments outside the scope of this Chapter**

#### *Pension costs for service after 31 March 2012*

3.15. Pension costs attributable to the licensee, but which relate to pensionable service on or after 1 April 2012 will be considered as a constituent part of labour costs for price control purposes. This includes costs relating to any incremental deficit which accrues in relation to such service, ascertained in accordance with the pension deficit allocation methodology. These costs fall outside the scope of Special Conditions 6D, 7C and this Chapter.

*True-up for pension payments by the licensee in the TPCR4 Rollover Price Control Period*

3.16. For the Price Control Period preceding RIIO-T1 (the TPCR4 price control which excludes the TPCR4 rollover year), a true-up was applied to the difference between the level of pension costs included in the licensee's allowed revenues, and the actual payments made by the licensee to the pension scheme. Any true-up amount not included in RIIO-T1 opening base revenue allowances ('PU' and 'SOPU' values) will be dealt with in accordance with Special Conditions 6A (Legacy price control adjustments – Transmission Owner), 7A (Legacy price control adjustments – System Operator) and Chapter 15 of this handbook. Such adjustments therefore fall outside the scope of Special Conditions 6D, 7C and this Chapter.

### **Temporal conventions**

3.17. For the purposes of Special Conditions 6D, 7C and this Chapter, "Relevant Year t" means the Relevant Year in which a value for the term MOD, calculated through a particular Annual Iteration Process<sup>14</sup>, is used in the formula for the licensee's Base Transmission Revenue<sup>15</sup>. References to Relevant Year t-1 etc should be construed accordingly.

3.18. A reference to, for example, *the EDE value for 2015-16* means the EDE value in the 2015-16 column of the PCFM variable Values Table for the licensee contained in the ET1 Price Control Financial Model.

## **Part 2 - Updating allowances through the Annual Iteration Process**

3.19. The licensee's allowances for Pension Scheme Established Deficit repair, Pension Scheme Administration and PPF levy expenditure will be updated during the Price Control Period to reflect:

- information contained in pension scheme actuarial valuation reports provided by the licensee to Ofgem; and
- actual deficit funding payments, pension scheme administration and PPF levy expenditure information contained in the licensee's price control review information submitted to Ofgem.

3.20. As set out in Special Conditions 6D and 7C, EDE, APFE, SOEDE and SOAPFE values will be revised on two occasions during the Price Control Period, driven by the triennial scheme valuation cycle indicated in the timetable below.

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<sup>14</sup> and/or SOMOD for NGET

<sup>15</sup> See Special Condition 3A (Restriction of Transmission Network Revenue) and 4A (Restriction of System Operator Internal Revenue).

**Table 3.1 - Expected timetable for EDE and APFE value revisions**

Actuarial defined benefit pension scheme valuation as at	Expected receipt of scheme valuation by Ofgem	Pension deficit allocation methodology information provided	Reasonableness review completed	Revised PCFM Variable Values directed for Annual Iteration Process no later than:	EDE and SOEDE values revised for Relevant Year	APFE and SOAPFE values revised for Relevant Years
31 March 2012 and 2013	June 2014	30 September 2014	31 October 2014	30 November 2014	2015-16 onwards	2013-14, 2015-16 to 2018-19
31 March 2016	June 2017	30 September 2017	31 October 2017	30 November 2017	2018-19 onwards	2014-15 to 2020-21
31 March 2019	June 2020	30 September 2020	31 October 2020	n/a	n/a	n/a

Note: The reasonableness review of the valuations as at 31 March 2019 will inform the reset and true up in RIIO-T2, except for APFE and SOAPFE values

3.21. For licensee's whose scheme valuation dates differ to those shown in the first column of Table 3.1, licensees are required to provide either a full valuation (provided it is also used to determine the schemes deficit recovery plan) or an updated valuation at these dates. The approach which should be used by licensees to produce an updated valuation is defined in Ofgem's pension deficit allocation methodology.

3.22. Ofgem will direct revised EDE, APFE, SOEDE and SOAPFE values at other times, if that is necessary to reflect any revised timetable of information availability or process completion. However, in those circumstances, the PCFM Variable Values would still be determined in accordance with the procedures set out in this Chapter.

3.23. As set out in paragraph 3.5, revised EDE, APFE, SOEDE and SOAPFE values feed directly into the recalculated base revenue figures in the PCFM for applicable Relevant Years through the Annual Iteration Process. Incremental changes to recalculated base revenue figures for years earlier than Relevant Year t will, subject to a Time Value of Money adjustment, be brought forward and reflected in the calculation of the terms MOD and SOMOD to be directed for Relevant Year t. For the avoidance of doubt, no previously directed value of the term MOD or SOMOD will be retrospectively affected.

### Reasonableness review

3.24. In accordance with Special Conditions 6D, 7C after receiving each data set, or substantially all of each data set, of scheme valuations, Ofgem will commission a review of those valuations and of the reasonableness of the licensee's Pension



Scheme Established Deficit funding levels. The expected completion times for the reasonableness reviews due to take place during the Price Control Period are shown in Table 3.1. The data set comprises:

- the actuarial valuation of the licensee’s pension scheme(s), either a full triennial valuation as at the date specified or an updated valuation of the last preceding full triennial valuation with the asset and liability values rolled forward as defined in the pensions deficit allocation methodology document;
- the schemes statement of funding principles;
- the schemes statement of investment principles; and
- the completed deficit allocation methodology tables and other pension data tables and supporting documents specified in the price control review cost information regulatory instructions and guidance (RIGs) document provided under licence condition B15 (Regulatory Instructions and Guidance).

### Part 3 – Pension Scheme Established Deficit repair allowances

#### Determination and direction of revised EDE and SOEDE values by 30 November 2014

3.25. Subject to paragraph 3.26, revised EDE and SOEDE values will be determined by 30 November 2014 for each Relevant Year from 2015-16 to 2020-21 (or as soon as reasonably practical thereafter) using the methodology set out in Table 3.2 below. Each step is carried out in respect of EDE values to be determined and separately, for NGET, in respect of SOEDE values to be determined. This includes determining the actual Cut-Off Date Pension Scheme Established Deficit as at 31 March 2012.

**Table 3.2 - Process for determining revised EDE and SOEDE values to be directed by 30 November 2014**

<u>Row</u>	<u>Timing</u>	<u>Event</u>	<u>Value</u>
1	By 30 June 2014	Ofgem obtains the actuarial scheme valuations for the licensee’s defined benefit pension scheme as at 31 March 2012 and 2013 and commences a reasonableness review.	
2	By 31 July 2014	Ofgem receives price control review information from licensee covering Relevant Year 2013-14 and also 2012-13.	
3	By 30 September 2014	Licensee submits deficit allocation information and indicative Pension Scheme Established Deficit figure for March 2012.	
4		Ofgem carries out reasonableness review of information submitted by licensee and determines Cut-Off Date Pension	“A”

		Scheme Established Deficit position as at 31 March 2012.	
5	By 31 October 2014	Cut-Off Date Pension Scheme Established Deficit amount deflated to 2009-10 prices using actual RPI data determined in accordance with paragraph 1.7	"B"
6		Remaining deficit repair period established as 12 years (2026-27 minus 2014-15)	
7		<p>Annual Pension Scheme Established Deficit repair allowance in 2009-10 prices computed as:</p> $= \text{"B"} / ((1-(1+\text{DR})^{-12}) / \text{LN}(1+\text{DR}))$ <p>Where:</p> <p>DR is the discount rate determined by Ofgem derived through a benchmarking process against energy network operators pre-retirement discount rates as applied in their valuations at "A" and moderated against similar rates reported by occupational pension schemes in Great Britain; and</p> <p>LN returns the natural logarithm of the subject value.</p> <p>If there is a surplus shown by the valuation, B and C are set to zero and paragraph 3.30 below applies.</p>	"C"
Adjustment relating to licensee payment history in RIIO-T1 period			
8	By 31 October 2014	<p>Obtain actual deficit repair payment attributable to the licensee:</p> <p>(a) Obtain relevant portion (ie the portion attributable to the Pension Scheme Established Deficit for the licensee's transmission business<sup>16</sup>) of actual deficit repair payment made by licensee in 2012-13 and 2013-14 (ED);</p> <p>(b) Adjust for any disallowed costs arising from Ofgem's reasonableness review (DC);</p> <p>(c) Deflate to 2009-10 prices using actual RPI data determined in accordance with paragraph 1.7 (<math>\text{RPI}_{2009-10} / \text{RPI}_{\text{nominal}}</math>);</p> <p>(d) Where the licensee has taxable profits in the year, deduct the value of corporation tax to give the post-tax value of deficit repair payments. This is calculated at the actual rate of corporation tax applicable to the Relevant Year. If the licensee does not have taxable profits for the year, this step is omitted (1-CT);</p> <p>(e) Adjust for the Time Value of Money through to the date where EDE allowance values will be revised, ie 1 April</p>	"D"

<sup>16</sup> Split into TO and SO for NGET

		<p>2015 (WACC<sup>n</sup>)</p> <p>This is computed for each Relevant Year as:</p> $= (ED - DC) * (RPI_{2009-10} / RPI_{nominal}) * (1 - CT) * (1 + WACC)^n$ <p>eg <math>D_{2012-13} = (ED_{2012-13} - DC_{2012-13}) * (RPI_{2009-10} / RPI_{2012-13}) * (1 - CT_{2012-13}) * (1 + WACC_{2012-13})^3</math></p> <p>Repeat for <math>E_{2013-14}</math></p> <p>The value of "D" is:</p> $"D" = D_{2012-13} + D_{2013-14}$ <p>Where:</p> <p>"ED" is the licensee portion of established deficit repair payments during in the relevant Relevant Year, in 2009-10 prices;</p> <p>"DC" is the value of disallowed costs arising from Ofgem's reasonableness review;</p> <p>"RPI<sub>2009-10</sub>" means the arithmetic average of the Retail Prices Index (all items) figures published by the Office for National Statistics for each calendar month in Relevant Year 2009-10 rounded to three decimal places;</p> <p>"RPI<sub>nominal</sub>" means the arithmetic average of the Retail Prices Index (all items) figures published by the Office for National Statistics for each calendar month in the Relevant Year referred to in the price control review information in question rounded to three decimal places;</p> <p>"CT" is the actual rate of Corporation Tax applicable in the relevant Relevant Year, or is zero if the licensee does not have taxable profits for the year;</p> <p>"WACC" is the Vanilla Weighted Average Cost of Capital attributable in the relevant Relevant Year; and</p> <p>"n" is the number of financial years to 1 April 2015 from the price control review information referred to in step 2 above;</p>	
9		<p>Obtain pre-existing EDE/SOEDE allowances for comparison to licensee's actual deficit repair payment:</p> <ol style="list-style-type: none"> <li>Adjust the pre-existing EDE/SOEDE allowances set out in Final Proposals to the post-tax value; and</li> <li>Adjust for the Time Value of Money</li> <li>This is computed for each Relevant year as:</li> </ol> $= (EDEF * (1 - CT) * (1 + WACC)^n$	"E"

		<p>eg <math>E_{2012-13} = EDE1 * (1 - CT_{2012-13}) * (1 + WACC_{2012-13})^3</math>  Repeat for <math>E_{2013-14}</math>.</p> <p>The value of "E" is computed as:  <math>E = (E_{2012-13} + E_{2013-14})</math></p> <p>Where:</p> <p>"EDEF" is the pre-existing EDE/SOEDE allowance set out in Final Proposals;</p> <p>"CT" is the actual rate of Corporation Tax applicable in the Relevant Year, or is zero if the licensee does not have taxable profits for the year;</p> <p>"WACC" is the Vanilla Weighted Average Cost of Capital attributable in the Relevant Year; and</p> <p>"n" is the number of financial years to 1 April 2015.</p>	
10		<p>Obtain the difference between the pre-existing allowance and actual payment.</p> <p>This is computed as: "D" - "E".</p>	"F"
11		<p>Spread the difference between the pre-existing allowance and actual payment evenly over the remaining 12 years of the notional 15-year funding period:</p> <p>The adjusting amount relating to each Relevant Year is computed as (in 2009-10 prices):</p> $= \text{value "F"} / ((1 - (1 + DR)^{-12}) / \ln(1 + DR))$ <p>Where:</p> <p>DR is the discount rate determined using the methodology described in row 7.</p> <p>The value "G" may be either positive (if actual payments at "D" are greater than the pre-existing allowance), or negative (if actual payments at "D" are less than the pre-existing allowances).</p>	"G"
12		<p>Obtain revised EDE/SOEDE values for the remaining years of RIIO-EGT1, ie for each Relevant Year from 2015-16 to 2020-</p>	

		21.  This is determined as: "C" + "G".  Note 2015-16 will remain the first Relevant Year in the event that the adjustment is delayed by one or more years.	
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3.26. The adjustment contained in Row 10 of Table 3.2 deals with a situation where the licensee has previously paid across more, or less, than the allowance (EDE/SOEDE value) it was given for a particular Relevant Year.

#### *Scheme surplus*

3.27. If the difference between the assets and corresponding liabilities referred to in paragraph 3.7 represents a surplus position as at 31 March 2012, then EDE and SOEDE values for Relevant Years from 2015-16 onwards will be revised to zero pending the next review process set out in Table 3.3. The policy position with regard to pension scheme surpluses is set out in the March 2011 Strategy document and, as applicable, the relevant Final Proposals.

#### **Determination and direction of revised EDE and SOEDE values by 30 November 2017**

3.28. Subject to paragraph 3.30, revised EDE and SOEDE values will be determined by 30 November 2017 for each Relevant Year from 2018-19 to 2020-21 using the methodology set out in Table 3.3 below. Each step is carried out in respect of EDE values to be determined and separately, for NGET, in respect of SOEDE values to be determined.

#### **Table 3.3 - Process for determining revised EDE values to be directed by 30 November 2017**

<u>Row</u>	<u>Timing</u>	<u>Event</u>	<u>Value</u>
1	By 30 June 2017	Ofgem obtains the actuarial scheme valuation for the licensee's defined benefit pension scheme as at 31 March 2016 and commences a reasonableness review.	
2	By 31 July 2017	Ofgem in receipt of price control review information from licensee covering Relevant Years 2014-15; 2015-16 and 2016-17.	
3	By 30 September 2017	Licensee submits deficit allocation information and indicative Pension Scheme Established Deficit figure as at 31 March 2016.	
4		Ofgem carries out reasonableness review of information submitted by licensee and determines the Pension Scheme	"A"

		Established Deficit position as at 31 March 2016.	
5	By 31 October 2017	Pension Scheme Established Deficit amount deflated to 2009-10 prices using actual RPI data determined in accordance with paragraph 1.7.	"B"
6		Remaining deficit repair period established as 9 years (2026-27 minus 2017-18)	
7		<p>Annual Pension Scheme Established Deficit repair allowance in 2009-10 prices computed as:</p> $= \text{"B"} / ((1-(1+DR)^{-9}) / \text{LN}(1+DR))$ <p>Where:</p> <p>DR is the discount rate determined by Ofgem derived through a benchmarking process against energy network operators pre-retirement discount rates as applied in their valuations at "A" and moderated against similar rates reported by occupational pension schemes in Great Britain; and</p> <p>LN returns the natural logarithm of the subject value</p> <p>If there is a surplus shown by the valuation B and C are set to zero and paragraph 3.30 below applies.</p>	"C"
Adjustment relating to licensee payment history in RIIO-ET1 period			
8	By 31 October 2017	<p>Obtain actual deficit repair payment attributable to the licensee:</p> <ol style="list-style-type: none"> <li>Obtain relevant portion (ie the portion attributable to the licensee's transmission business<sup>17</sup>) of actual deficit repair payments made by licensee during 2014-15, 2015-16 and 2016-17 (ED);</li> <li>Adjust for any costs identified in Ofgem's reasonableness review, based on valuation data as at 31 March 2016 (DC);</li> <li>Deflate to 2009-10 prices using actual RPI data determined in accordance with paragraph 1.x (<math>RPI_{2009-10} / RPI_{nominal}</math>);</li> <li>Where the licensee has taxable profits in the year, deduct the value of corporation tax to give the post-tax value of deficit repair payments. This is calculated at the actual rate of corporation tax applicable to the Relevant Year. If the licensee does not have taxable profits for the year, this step is omitted (1-CT); and</li> <li>Adjust for the Time Value of Money through to the date where EDE allowance values will be revised, ie 1 April 2018 (<math>1+WACC^n</math>)</li> </ol>	"D"

<sup>17</sup> Split into TO and SO for NGET

		<p>This is computed for each Relevant Year as:</p> $= (ED - DC) * (RPI_{2009-10} / RPI_{nominal}) * (1-CT) * (1+WACC)^n$ <p>eg <math>D_{2014-15} = (ED_{2014-15} - DC_{2014-15}) * (RPI_{2009-10} / RPI_{2014-15}) * (1-CT_{2014-15}) * (1 + WACC_{2014-15})^4</math></p> <p>Repeat for <math>E_{2015-16}</math> and <math>E_{2016-17}</math></p> <p>The value of "D" is:</p> $"D" = D_{2014-15} + D_{2015-16} + D_{2016-17}$ <p>Where:</p> <p>"ED" is the licensee portion of established deficit repair payments during the relevant Relevant Year, in 2009-10 prices;</p> <p>"DC" is the value of disallowed costs arising from Ofgem's reasonableness review, based on valuation data as at 31 March 2016;</p> <p>"RPI<sub>2009-10</sub>" means the arithmetic average of the Retail Prices Index (all items) figures published by the Office for National Statistics for each calendar month in Relevant Year 2009-10 rounded to three decimal places;</p> <p>"RPI<sub>nominal</sub>" means the arithmetic average of the Retail Prices Index (all items) figures published by the Office for National Statistics for each calendar month in the Relevant Year referred to in the price control review information in question rounded to three decimal places;</p> <p>"CT" is the actual rate of Corporation Tax applicable in the Relevant Year, or is zero if the licensee does not have taxable profits for the year; and</p> <p>"WACC" is the Vanilla Weighted Average Cost of Capital attributable in each Relevant Year; and</p> <p>"n" is the number of financial years to 1 April 2018.</p>	
9		<p>Obtain pre-existing EDE allowances for comparison to licensee's actual deficit repair payment:</p> <ol style="list-style-type: none"> <li>Obtain pre-existing EDE allowances ("C" in table 3.2);</li> <li>Adjust the pre-existing EDE allowances reset at 1 April 2015 to the post-tax value (1-CT); and</li> <li>Adjust for the Time Value of Money (1+WACC^n).</li> </ol>	"E"

		<p>This is computed for each Relevant Year as:  <math display="block">= (EDE1 * (1 - CT)) * (1 + WACC) ^n</math></p> <p>eg <math>E_{2014-15} = EDE1 * (1 - CT_{2014-15}) * (1 + WACC_{2014-15}) ^4</math>  Repeat for <math>E_{2015-16}</math> and <math>E_{2016-17}</math></p> <p>The value of "E" is computed as:  <math display="block">"E" = E_{2014-15} + E_{2015-16} + E_{2016-17}</math></p> <p>Where:  "EDE1" is the pre-existing EDE annual allowance reset at 1 April 2015, before any true-up adjustment (ie value of "C" in table 3.2);  "CT" is the actual rate of Corporation Tax applicable in the Relevant Year, or is zero if the licensee does not have taxable profits for the year;  "WACC" is the Vanilla Weighted Average Cost of Capital attributable in each Relevant Year; and  "n" means the number of financial years to 1 April 2018.</p>	
10		<p>Obtain the difference between the pre-existing allowance and actual payment.</p> <p>This is computed as: <math>"D" - "E"</math></p>	"F"
11		<p>Spread the difference between the pre-existing allowance and actual payment evenly over the remaining 10 years of the notional 15-year funding period.</p> <p>The adjusting amount relating to each Relevant Year is computed as (in 2009-10 prices):  <math display="block">= \text{value "F"} / ((1-(1+DR)^{-10}) / \text{LN}(1+DR))</math></p> <p>Where:  DR is the discount rate determined using the methodology set out in row 7.</p> <p>The value "G" may be either positive (if actual payments at "D" are greater than the pre-existing allowance), or negative (if actual payments at "D" are less than the pre-existing allowances).</p>	"G"



12		<p>Obtain revised EDE values for the remaining years of RIIO-EGT1, ie for each Relevant Year from 2018-19 to 2020-21.</p> <p>This is determined as: "C" + "G".</p>	
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3.29. The adjustment contained in Row 10 of Table 3.3 deals with a situation where the licensee has previously paid across more, or less, than the allowance (EDE/SOEDE value) it was given for a particular Relevant Year.

#### *Scheme surplus*

3.30. If the difference between the assets and corresponding liabilities referred to in paragraph 3.5 represents a surplus position as at 31 March 2016, then EDE and SOEDE values for Relevant Years from 2018-19 onwards will be revised to zero pending the next triennial scheme valuation. The policy position with regard to pension scheme surpluses is set out in the March 2011 Strategy document and, as applicable, the relevant Final Proposals.

#### **Direction of revised EDE and SOEDE values**

3.31. The Authority will direct revised EDE and SOEDE values by no later than 30 November 2014 and 30 November 2017 (or as soon as reasonably practical thereafter) in accordance with the procedure set out in Part D of Special Condition 6D and Part D of Special Condition 7C.

### **Part 4 - Pension Scheme Administration and PPF levy allowances**

3.32. The licensee's actual costs in respect of scheme administration costs and PPF levies will be reported under the annual Regulatory Reporting cycle in accordance with Standard Condition B15 ( Price Control Review Information) of the licence.

3.33. Revised APFE and SOAPFFPE values will be determined in accordance with the steps set out below by 30 November 2014 and 30 November 2017.

#### *Values to be directed by 30 November 2014*

- (i). The actual aggregated Pension Scheme Administration and PPF levy expenditure reported by the licensee in its price control review information submissions for Relevant Year 2013-14 will be obtained.
- (ii). The expenditure amounts in (i) will be deflated to 2009-10 prices using actual RPI data.
- (iii). The aggregate price control allowance for Pension Scheme Administration and PPF levy expenditure for each year set out in the relevant Final Proposals is obtained, to which is added the annual adjustment threshold amount of £1m.

- (iv). If the amount referred to in step (iii) is exceeded in any specified Relevant Year by the amount in step (ii), the excess amount only will be added to the pre-existing amount allowance at the price control for that item.
- (v). If the amount at (iii) is less than the pre-existing price control allowed value at (iii), then no revision to the price control value will be made.
- (vi). The excess at (iv) will be added to the pre-existing APFE and APFE values to determine the revised APFE and SOAPFE values for Relevant Year 2013-14.
- (vii). Ofgem will review Pension Scheme Administration and PPF levy costs based on actual costs incurred in previous years and known changes to the PPF levies advised by the PPF and, subject to them being considered efficient, reset the existing constituent costs; and the combined existing APFE values for Relevant Years 2015-16, 2016-17 and 2017-18.

*Values to be directed by 30 November 2017*

- (i). The actual aggregated Pension Scheme Administration and PPF levy expenditure reported by the licensee in its price control review information submissions for Relevant Years 2014-15, 2015-16 and 2016-17 will be obtained.
- (ii). The expenditure amounts in (i) will be deflated to 2009-10 prices using actual RPI data.
- (iii). The aggregate price control allowance for Pension Scheme Administration and PPF levy expenditure for that year set out in the relevant Final Proposals is obtained, to which is added the annual adjustment threshold amount of £1m.
- (iv). If the amount referred to in step (iii) is exceeded in any specified Relevant Year by the amount in step (ii), the excess amount only will be added to the pre-existing allowance at the price control for that item.
- (v). If the amount at (ii) is less than the pre-existing price control allowed value at (iii), then no revision to the price control value will be made.
- (vi). The excess at (iv) will be added to the pre-existing APFE and APFE values to determine the revised APFE and SOAPFE values for Relevant Years 2014-15, 2015-16 and 2016-17.
- (vii). Ofgem will review Pension Scheme Administration and PPF levy costs based on actual costs incurred in previous years and known changes to the PPF levies advised by the PPF and, subject to them being considered efficient, reset the existing constituent costs; and the combined existing APFE values for Relevant Years 2018-19, 2019-20 and 2020-21.

**Direction of revised APFE and SOAPFE values**

3.34. The Authority will direct revised APFE and, as applicable, SOAPFE values no later than 30 November 2014 and 30 November 2017 (or as soon as reasonably practical thereafter) respectively as computed above in accordance with the

procedure set out in Part D of Special Condition 6D and Part D of Special Condition 7C.

### **Part 5 - Processing of revised EDE, SOEDE, APFE and SOAPFE values under the Annual Iteration Process**

3.35. EDE, SOEDE, APFE and SOAPFE values, as revised are added in full to recalculated base revenue figures in the PCFM under the Annual Iteration Process and are treated as 100 per cent fast money. Revisions to the values will have ancillary effects on other calculations under the Annual Iteration Process which also feed into recalculated base revenue figures.

3.36. Incremental changes to recalculated base revenue figures for years earlier than Relevant Year t will, subject to a Time Value of Money adjustment, be brought forward and reflected in the calculation of the term MOD/SOMOD to be directed for Relevant Year t. For the avoidance of doubt, such a revision will not have any retrospective effect on a previously directed value of the term MOD or SOMOD.

3.37. EDE, SOEDE, APFE and SOAPFE values are not added to RAV and are not subject to the Totex Incentive Mechanism.

## 4. Tax liability allowances - financial adjustment methodologies

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### Part 1 - Overview

4.1. The opening base revenue allowances for the licensee set down in the table in Special Condition 3A (Restriction of Transmission Network Revenue) include tax liability allowances which are modelled at the outset of the Price Control Period to take account of:

- (a) existing and announced corporation tax rates and writing down allowance rates;
- (b) existing legislation, case law, accounting standards and HM Revenue & Customs (HMRC) policy; and
- (c) modelled levels of gearing and corporate debt interest payments.

4.2. Part B of Special Conditions 6D and 7C provides for adjustments to be made to the licensee's tax liability allowances<sup>18</sup> during the Price Control Period commencing 1 April 2013 through the Annual Iteration Process for the ET1 Price Control Financial Model for MOD and SOMOD. Changes to the factors referred to at sub-paragraphs 4.1(a) and (b) are referred to as 'tax trigger events' and the methodology for adjustments is set out in Part 2 of this Chapter. Changes in respect of the factors referred to at sub-paragraph 4.1(c) are referred to as 'tax clawbacks' and the methodology for adjustments is set out in Part 3 of this Chapter.

### Temporal conventions

4.3. For the purposes of Special Conditions 6D and 7C and this Chapter, "Relevant Year t" means the Relevant Year in which a value for the term MOD and SOMOD, calculated through a particular Annual Iteration Process, will be used in the formula for the licensee's base transmission revenue.

### Annual Iteration Process

4.4. The adjusting of the licensee's tax liability allowances and regulatory tax losses balance is carried out through the Annual Iteration Process for the ET1 Price Control Financial Model. The Variable Values Table for the licensee contained in the ET1 PCFM contains rows for PCFM Variable Values for tax liability allowance adjustments driven by:

- tax trigger events ('TTE' / 'SOTTE' values); and
- tax clawbacks ('TGIE' / 'SOTGIE' values).

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<sup>18</sup> References in this Chapter to tax liabilities are references to liabilities for corporation tax only and not to any other type of taxation.

4.5. TTE, SOTTE, TGIE and SOTGIE values represent £m amounts. As at 1 April 2013, the TTE, SOTTE, TGIE and SOTGIE values for the licensee will be zero. Part B of Special Condition 6D and 7C (Specified financial adjustments) provides for any revisions to TTE, SOTTE, TGIE and SOTGIE values to be directed after determination under the methodologies in this Chapter.

4.6. Revisions to TTE, SOTTE, TGIE and SOTGIE values feed into the recalculated base revenue figures and/or the regulatory tax loss balances (see paragraph 4.10) for applicable Relevant Years in the ET1 PCFM, through the Annual Iteration Process. Incremental changes to recalculated base revenue figures for years earlier than Relevant Year *t* are, subject to a Time Value of Money adjustment using vanilla WACC, brought forward and reflected in the calculation of the term MOD and SOMOD to be directed for Relevant Year *t*. For the avoidance of doubt, such changes will not have any retrospective effect on a previously directed value of the terms MOD and SOMOD.

4.7. It should be noted that underlying tax liability allowances for the licensee within the ET1 PCFM might also be changed under the Annual Iteration Process as a consequence of other variable value changes, such as increases in allowed Totex expenditure. However, these changes are distinct from the specific adjustments to tax liability allowances under the methodologies in this Chapter. The allocation assumptions of the component elements of allowed Totex expenditure to capital allowance pools and revenue in the PCFM as set out in the Final Proposals will not be updated in the Price Control Period.

### **Price bases for tax calculations**

4.8. The ET1 PCFM works in constant 2009-10 prices, with all inputs and outputs in this price base. Where applicable, financial amounts which are expressed in later nominal prices will be deflated to 2009-10 prices on the basis of actual RPI data (regulatory year average) before being used to determine revised TTE, SOTTE, TGIE and SOTGIE values.

4.9. The ET1 PCFM uses nominal prices for some internal tax calculation functions. For this purpose, the model refers to RPI forecast values set at the outset of the Price Control Period and hard coded into the model.

### **Regulatory tax losses**

4.10. In some instances, the approach to calculating tax liability allowances could imply that the licensee could receive a negative allowance. In such cases, the price control treatment is to model a zero allowance; and the value of the tax loss will be added to the 'regulatory tax loss', where it exists, and will be carried forward to be offset against future any tax liability allowances. The regulatory tax loss balance attributable to each Relevant Year (together with a running total) is held within the ET1 PCFM and regulatory tax losses are referred to where applicable in the methodologies in this Chapter.

## Group tax arrangements

4.11. For the purposes of the methodology set out in Part 2 of this Chapter, tax liabilities, allowances and trigger events are considered on a notional 'licensee business' basis, and consequently the following are disregarded in the assessment of tax liabilities and allowances for price control purposes:

- the claim or surrender of group tax relief (including consortium relief);
- interest payments (including any coupon on any debt instrument or preference share dividend) and receipts which are not tax deductible or chargeable under HMRC rules for the purposes of computing the licensee's taxable profits, including but not limited to adjustments for transfer pricing and the "worldwide" debt cap; and
- any other adjustments required in appendix 1 of the July 2009 decision letter.<sup>19</sup>

4.12. For the purposes of the methodology set out in Part 3 of this Chapter, levels of debt, interest and gearing are considered at licensee level, as opposed to any other level with respect to the corporate or ownership group of which the licensee is a member.

## Part 2 - Adjustments driven by tax trigger events - methodology

4.13. The methodology set out in this Part provides for the licensee's tax liability allowances to be adjusted (subject to a threshold described below) to take account of tax trigger events. This means that consumers will derive a benefit when tax liability costs fall materially, and the licensee will be appropriately reimbursed when they rise.

### Tax trigger events

4.14. There are two types of tax trigger event for the purposes of tax liability allowance adjustments:

#### Type A

Type A events consist of:

- changes to corporation tax rates, applicable to one or more Relevant Years; and
- changes to capital allowance rates applicable to one or more Relevant Years.

<sup>19</sup> Clawback of Tax Benefit due to excess gearing [clawback](#)

## Type B

Type B events consist of other factors (exogenous to the licensee, its owners or controllers) which cause a change to the licensee's notional tax liabilities for one or more Relevant Years including:

- changes to applicable legislation;
- the setting of legal precedents through case law;
- changes to HMRC interpretation of legislation; and
- changes in accounting standards, including any deferral of the Accounting Standard Board's (ASB) implementation date for Financial Reporting Exposure Draft 48 (FRED48)<sup>20</sup>.

4.15. Where, a Type B event changes the allocation of allowable expenditure into different capital allowances pools, or introduces new capital allowance pools, the model will only be adjusted for the scale of the change driven by the policy. The applicable allocation and allowance rates will be adjusted to take into account the new expected allocation basis from the introduction of a new capital allowance pool or pools. There is no adjustment of allocations to licensee's actual allocations for Relevant Years up to the date of the change. We will work with licensees to quantify changes to allocations where these are not straightforward.

4.16. Type B events will only be taken into account where the licensee has demonstrably used reasonable endeavours to minimise any increase in its tax liabilities.

### **Materiality threshold and 'deadband'**

4.17. A materiality threshold is applied to tax trigger events during the Price Control Period and a £m absolute threshold amount for each Relevant Year is included amongst the fixed values on the Tax Trigger sheet for the licensee in the ET1 PCFM.

4.18. The materiality threshold for each Relevant Year is fixed for the Price Control Period. The threshold is determined as the greater of:

- 0.33 per cent of opening base revenue allowances ('PU'/'SOPU' values) for the licensee set down in Special Condition 5B3A; and
- the effect of a one per cent change in the rate of corporation tax,

on the opening values of the PU/SOPU term for each Relevant Year.

4.19. A change to tax liability allowances for a particular Relevant Year is only applied where one or more trigger events result in an overall change to the licensee's tax liabilities for that year (upward or downward) by an amount which is greater than the threshold amount. Furthermore, any change to the tax liability allowance

<sup>20</sup> FRED48 The Financial Reporting Standard applicable to UK and Republic of Ireland published by ASB January 2012, which is expected to become FRS102

(upward or downward) is limited to the amount which is in excess of the threshold amount for the year concerned.

4.20. Where the change to the licensee's tax liabilities for a particular Relevant Year is below the threshold, subsequent tax trigger events, relating back to that Relevant Year could cause the threshold amount to be exceeded. In that case, a change to the licensee's tax liability allowance for the Relevant Year concerned (a revised TTE/SOTTE value) would be determined once the threshold has been exceeded. For the avoidance of doubt no previously directed value of MOD will be retrospectively affected.

4.21. For the avoidance of doubt, a regulatory tax loss figure attributable to a particular Relevant Year is not taken into account for the purposes of deciding whether the threshold amount has been exceeded for that year.

### **Accounting standards**

4.22. The licensee's tax liability calculations are subject to:

- changes to applicable legislation;
- the setting of legal precedents through case law;
- changes to HMRC interpretation of legislation; and
- changes in accounting standards, including any deferral of the Accounting Standard Board's (ASB) implementation date for Financial Reporting Exposure Draft 48 (FRED48)<sup>21</sup> requirements of the accounting framework applicable to preparation of the licensee's statutory accounts.<sup>22</sup>

4.23. The accounting frameworks to be applied by the licensee for the purpose of computing tax liabilities are:

- UK GAAP in respect of Relevant Years 2013-14 and 2014-15; and
- for each subsequent Relevant Year either:
  - EU-IFRS, if adopted for use by the licensee; or
  - UK GAAP (under Financial Reporting Standard 102, as it should be known as on the implementation of FRED48).

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<sup>21</sup> FRED48 The Financial Reporting Standard applicable to UK and Republic of Ireland published by ASB January 2012, which is expected to become FRS102

<sup>22</sup> Section 385 of the Companies Act 2006 refers.



## Notification of tax trigger events

### *Type A trigger events*

4.24. Ofgem will, by 30 September in each Relevant Year t-1, notify the licensee of the Type A trigger events which it proposes to take into account in determining any revised TTE/SOTTE values for use in the Annual Iteration Process that is required to take place by 30 November in that same Relevant Year t-1. It is, however, open to the licensee to contact Ofgem in advance of 30 September in each Relevant Year to discuss the current view of Type A events. If Ofgem does not notify the licensee by 30 September in any year, the adjustments will be made in the subsequent year. The notification from Ofgem will specify the corporation tax rate change(s) or capital allowance rate changes concerned and the Relevant Years to which they relate.

4.25. The notification from Ofgem will specify the corporation tax rate change(s) or changes to rates of capital allowances concerned and the Relevant Years to which they relate.

4.26. If, after receiving the notification referred to in paragraph 4.24, the licensee considers that a Type A trigger event has occurred, which has not been included in the notification, it should contact Ofgem within 14 days and provide details of the event concerned. If Ofgem agrees that a further Type A trigger event has occurred, it will notify the licensee by 31 October in the same Relevant Year t-1.

4.27. If any Type A trigger event is left out of account when it ought to have been included in the determination of a revised TTE/SOTTE value (either because it was not included in a notice or otherwise) the position will be rectified in a subsequent revision of the TTE/SOTTE value(s) concerned. In such a case, the functionality of the PCFM means that a Time Value of Money adjustment would be applied.

### *Type B trigger events*

4.28. The licensee must notify Ofgem not later than 30 September in each Relevant Year t-1 of all the Type B trigger events that it becomes aware of, except those which have been previously reported. This requirement applies equally to events which could be expected to increase or to reduce the licensee's tax liability allowances.

4.29. If the licensee fails to notify Ofgem of any events it becomes aware of, or should be aware of, which potentially or actually increases the licensee's tax liability it will not be made retrospective nor made PV neutral. If the failure relates to a reduction or increase in the licensee's tax liability, then subject to the licensee demonstrating that it uses reasonable endeavours to identify all Type B trigger events this may not be held a breach of the licence conditions. We will deal with each event on its merits on a case-by-case basis.

4.30. The notification referred to in paragraph 4.28 should include, in respect of each Type B trigger event:

- (a) a description of the event;
- (b) the change in tax liabilities which the event is considered to cause and the Relevant Years to which they relate;
- (c) the calculations (including all relevant parameters and values) which the licensee used to arrive at the amounts referred to in sub-paragraph b);
- (d) any relevant information provided by HMRC in relation to the event;
- (e) evidence of mitigating measures which the licensee has taken to minimise any additional liabilities arising from the event; and
- (f) Whether the licensee agrees or disagrees with HMRC, whether they may contest it; and how they intend to report it in the tax submissions.

4.31. The licensee's notification should also state whether the licensee considers that the materiality threshold (see paragraph 4.17) has been exceeded for the Relevant Year(s) concerned, taking into account the total net amount of tax liability changes (upward and downward) included in the current notification and any previous notifications.

4.32. Ofgem will review any notifications given to it by the licensee under paragraph 4.28 and may ask the licensee:

- for additional information in respect of one or more of the notified events; and/or
- to submit the results of agreed upon audit procedures, specified by Ofgem and carried out by the licensee's Appropriate Auditors<sup>23</sup>, to assist in confirming the appropriateness and accuracy of the licensee's calculations.

4.33. Ofgem will inform the licensee by 31 October in the same Relevant Year t-1 whether, in respect of each Type B trigger event:

- it has agreed the change in the tax liabilities figure calculated by the licensee;
- it has determined a different change in tax liabilities figure from that calculated by the licensee; or
- it has decided that consideration of any change in tax liabilities should be deferred until further/better information is available.

4.34. Where Ofgem determines a different change in tax liabilities figure from that calculated by the licensee or decides that consideration of any change in tax liabilities should be deferred, it will set out its reasons and/or calculations. The licensee has the right to reply setting out its objections, which Ofgem will consider.

4.35. Ofgem will also notify the licensee by 31 October in each Relevant Year t-1, of any Type B trigger events that it proposes to take into account that have not been

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<sup>23</sup> As defined in Standard Condition B1 of the Electricity Transmission Licence

included in a notification sent to Ofgem by the licensee. The licensee has the right to reply setting out its objections, which Ofgem will consider.

4.36. The final quantification and adjustment for any type B trigger event will be deemed to have occurred when the licensee and HMRC conclude the agreement of the licensee's tax liabilities for the Relevant Year concerned. This means that the final quantification will typically either confirm a prior value of TTE/SOTTE or revise a value of TTE/SOTTE for a year t-2 or earlier. The adjustment to TTE values will be directed in accordance with paragraphs 4.42 and 4.44.

### **Logging of trigger events**

4.37. Ofgem will keep a log of tax trigger events which have been subject to notifications by it or by licensees showing for each event:

- a description of the event and whether it was Type A or Type B;
- the name of the party who notified the event (Ofgem or licensee);
- the date of notification;
- the amount of any change in the licensee's tax liabilities which has been determined under the procedures set out below; and
- details of any events for which a determination is in abeyance and a description of the outstanding actions to be taken.

### **Determination and direction of revised TTE and SOTTE values**

*Determination of revised TTE and SOTTE values using the tax trigger calculation tool*

4.38. The design of the ET1 PCFM includes additional functionality meaning that a copy of the ET1 PCFM (held on Ofgem's website) can be used as a tax trigger calculation tool, as an adjunct to the Annual Iteration Process.

4.39. After 31 October in each Relevant Year t-1, Ofgem will generate a *duplicate copy* of the ET1 PCFM, in its state following the last completed Annual Iteration Process, but including any subsequent functional modifications under Special Condition 5A for use as the tax trigger calculation tool. It will then take the following steps to determine TTE and SOTTE values for each licensee:

- (i). all of the other PCFM Variable Value revisions which have been determined for use in the prospective Annual Iteration Process (and which Ofgem expects to include in the notices of proposed Variable Value revisions to licensees) will be applied to the Variable Values Table;
- (ii). all of the existing TTE and SOTTE values will be re-set to zero;
- (iii). any existing values in the yellow input cells on the tax trigger worksheet will be cleared with the exception of the tax deadband values;

- (iv). the 'Tax allowance before tax trigger' amount for the licensee for each Relevant Year shown on the tax trigger worksheet will be noted;
- (v). the PCFM copy will be put into 'tax trigger tool mode' using the selector on the User Interface worksheet of the licence model;
- (vi). changes to corporation tax rates or writing down allowance rates (reflecting Type A trigger events) will be input into the yellow input cells in the appropriate rows and Relevant Year columns on the tax trigger worksheet;
- (vii). the tax trigger macro calculation programmed into the workbook will be run;
- (viii). the aggregate changes to the licensee's tax liabilities determined in respect of all Type B trigger events (whether notified during Relevant Year t-1 or on an earlier occasion) will be input into the yellow input cells on the 'Type B event values' row in the appropriate Relevant Year columns on the tax trigger worksheet;
- (ix). the tax trigger macro calculation will be re-run;
- (x). the new 'Tax allowance' amount for the licensee shown on the tax trigger worksheet will be noted – this is displayed net of the deadband amount which is also calculated under the macro calculation;
- (xi). the difference between the 'Tax allowance before tax trigger' referred to at point (iv) and the new 'Tax allowance' referred to at point (x) will be calculated as a £m amount, for the licensee for each Relevant Year.

4.40. Subject to paragraph 4.41, the amounts calculated under step (xi) will then be determined to be the TTE/SOTTE values for the licensee for each Relevant Year. Where these values differ from the TTE/SOTTE values shown on the Variable Values Table for the licensee in the ET1 PCFM (following the last completed Annual Iteration Process), Ofgem will direct that the TTE/SOTTE values concerned are to be changed in accordance with the process set out in Part B of Special Conditions 6D and 7C, as appropriate, and referred to below.

4.41. The process set out in paragraph 4.39 will be re-performed, if any of the PCFM Variable Values, referred to at step (iii) are changed, to ensure that accurate TTE values are available for the Annual Iteration Process.

*Notes on the tax trigger calculation set out in paragraph 4.39*

- The two stage calculation process referred to in steps (vii) and (ix) allows the tax trigger calculation tool to take full account of the interrelationship between Type A and Type B events.
- The nullification of existing TTE/SOTTE values referred to in step (ii) together with the inclusion of all determined changes to the licensee's tax liabilities referred to in step (viii) ensures that the determination of TTE/SOTTE values under step (xi) is on a consistent basis and accurately applies the materiality threshold/ deadband applicable to each Relevant Year.
- the inclusion of all available revisions to other PCFM Variable values under step (i) ensures that the tax allowance calculation is as up to date as possible for each Relevant Year.

- Once a tax trigger event has occurred in any prior year, the tax trigger calculation will need to be run in all subsequent years, even if no tax trigger event occurs in the year of running the calculation.

#### *Direction of revised TTE and SOTTE values*

4.42. The Authority will direct any revisions to TTE and SOTTE values for the licensee by 30 November in each Relevant Year t-1, having given the licensee at least 14 days notice of the values which it proposes to direct.

4.43. Revised TTE and SOTTE values can be directed in respect of a particular Annual Iteration Process for any Relevant Year during the Price Control Period, including for years later than year t.

4.44. The procedure for the Authority's direction of revised TTE and SOTTE values is set out in Part D of Special Conditions 6D and 7C.

### **Part 3 - Adjustments driven by gearing levels and corporate debt interest costs ('tax clawback') - methodology**

4.45. At the outset of the Price Control Period, modelling assumptions are made about financing requirements, gearing levels and corporate debt costs for each of the licensee's transmission owner (TO) and system operator (SO) businesses. These result in modelled levels of tax deductible interest costs and tax relief for each of the TO and SO. The TGIE and SOTGIE adjustments are to be calculated separately for each of the TO and the SO, where applicable; both are referred to as the licensee below.

4.46. If the licensee operates at a higher level of gearing than the modelled level, it stands to benefit from the tax value of higher levels of deductibility. We apply a mechanism which 'claws back' this benefit for consumers by updating the licensee's tax liability allowances using the methodology set out in this Part. It should be noted that there is no provision to give additional tax allowances to the licensee if it chooses to operate at a level of gearing lower than the modelled one.

#### **Determination and direction of revised TGIE and SOTGIE values**

4.47. As a function of each Annual Iteration Process of the PCFM, for each year in the period 2013-14 to 2010-21 inclusive, updated figures for the expected amount of tax deductible interest payable by the licensee are calculated. These are shown as core and non-core elements in the Finance and Tax worksheet.

4.48. After 31 October in each Relevant Year, Ofgem will obtain the most recently modelled figure for tax deductible interest payable by the licensee in Relevant Year t-2, and all prior years, from a copy of the ET1 PCFM, in its state following the last completed Annual Iteration Process (but including any functional modifications under Special Conditions 6D and 7C).

4.49. The licensee is required to submit its price control cost reporting pack by 31 July in each Relevant Year t-1<sup>24</sup>, in accordance with standard Special Condition B15 (Price Control Review Information) of the electricity transmission licence and the Price Control Cost Reporting Rules: Instructions & Guidance ('RIGs') issued under that condition.

4.50. Ofgem will obtain from the 'tax clawback data table' in that submission:

- (i). the licensee's view of adjusted net debt figure as at 31 March in Relevant Year t-2 for the purposes of this calculation; and
- (ii). the adjusted amount of tax deductible net interest payable by the licensee during Relevant Year t-2, measured on an accruals basis.

4.51. The criteria, which the licensee must observe in reporting each of these adjusted items, are set out in the decision letter dated 31 July 2009 and Ofgem reviews the licensees reporting in this regard.

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4.52. Ofgem will obtain from the PCFM the licensee's indicative RAV (including any Shadow RAV) balance as at 31 March in Relevant Year t-2;

#### Applicability tests

4.53. Ofgem will use two tests – a gearing level test and a positive tax benefit test - to see whether there is a revised TGIE and SOTGIE value for the licensee in respect of Relevant Year t-2.

#### *Gearing level test*

4.54. Ofgem will divide the licensee's net debt figure as at 31 March in Relevant Year t-2 (see paragraph 4.50(i)) into the licensee's indicative RAV (including any Shadow RAV) balance as at 31 March in Relevant Year t-2 in nominal prices to obtain an actual calculated gearing ratio.

4.55. If the actual calculated gearing ratio established under paragraph 4.54, expressed as a percentage, is lower than the notional level of gearing as set out in the Final Proposals then:

- if the existing TGIE value is zero, no revised TGIE value is determined; or
- if the existing TGIE value is not zero, it is revised to zero; and.
- if the existing SOTGIE value is zero, no revised SOTGIE value is determined; or
- if the existing SOTGIE value is not zero, it is revised to zero.

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<sup>24</sup> subject to any changes to Standard Special Condition A40 (Price Control Review Information)

4.56. If the actual calculated gearing ratio established under paragraph 4.545, expressed as a percentage, is greater than the notional level of gearing then the positive benefit test will be performed.

*Positive benefit test*

4.57. Ofgem will subtract the aggregate of Core and non-Core modelled figures for tax deductible interest payable by the licensee in Relevant Year t-2 (see paragraph 4.48) from the adjusted tax deductible interest payable reported by the licensee (see paragraph 4.50(ii)) for Relevant Year t-2. If the resultant amount is positive then the clawback has been triggered.

4.58. If the clawback has been triggered, Ofgem will multiply the result in 4.57 by the actual corporation tax rate applicable for the Relevant Year to derive the licensee's benefit figure. The revised TGIE value for the licensee for Relevant Year t-2 is determined as:

$$\text{Revised TGIE/SOTGIE value} = \text{benefit figure} \times -1$$

4.59. If the benefit figure is a negative value then:

- if the existing TGIE value is zero, no revised TGIE value is determined; or
- if the existing TGIE value is not zero, it is revised to zero; and
- if the existing SOTGIE value is zero, no revised SOTGIE value is determined; or
- if the existing SOTGIE value is not zero, it is revised to zero.

Interaction with unutilised regulatory tax losses

4.60. If for any Relevant Year the licensee has a clawback but no modelled profits subject to tax then the pre-tax value of TGIE/SOTGIE (ie the amount in 4.58) is added to the cumulative unutilised regulatory tax losses, ie it increases the losses. This will be relieved against future Core taxable profits.

**Direction of revised TGIE and SOTGIE values**

4.61. Revised TGIE values will be directed in respect of Relevant Year t-2 and each prior Relevant Year in the Price Control Period. This is because the figures used in determining them are obtained from the licensee's annual cost reporting return which contains data relating to Relevant Year t-2 and prior years.

4.62. If, for any reason, RAV, net debt or tax deductible interest figures submitted by the licensee are subject to amendment after they have been used in determining revised TGIE/SOTGIE values, the following procedure will be followed for the next Annual Iteration Process:

- Ofgem will re-perform the calculation of a benefit figure and the applicability tests set out above to determine whether any revised TGIE/SOTGIE value should be determined and directed in respect of the Relevant Year to which the amended figures relate. For this purpose, Ofgem will use a copy of the PCFM in its latest state to obtain a modelled figure for tax deductible interest payable by the licensee.
- If a revised TGIE/SOTGIE value is directed for a year earlier than Relevant Year t-2, any resultant changes to recalculated base revenue figures for years earlier than Relevant Year t-2 calculated under an Annual Iteration Process will, subject to a Time Value of Money adjustment, be brought forward and reflected in the calculation of the term MOD and SOMOD to be directed for Relevant Year t. For the avoidance of doubt, such a revision will not have any retrospective effect on a previously directed value of the term MOD and SOMOD.

4.63. The Authority will direct any revisions to TGIE/SOTGIE values for the licensee by 30 November (or as soon as reasonably practicable thereafter) in each Relevant Year t-1, having given the licensee at least 14 days notice of the values which it proposes to direct.

4.64. The procedure for the Authority's direction of revised TGIE/SOTGIE values is set out in Part D of Special Condition 6D.

#### **Part 4 - Processing of revised TTE, SOTTE, TGIE and SOTGIE values under the Annual Iteration Process**

4.65. A positive incremental change in a TTE/SOTTE value will increase the 'recalculated base revenue figure' for the Relevant Year concerned by the same amount. However, if there is any unutilised amount of regulatory tax loss for the licensee, attributable to that Relevant Year or to an earlier Relevant Year, the increase to the recalculated base revenue figure will be partially or fully abated by that amount, and the record of regulatory tax losses held within the ET1 PCFM will be updated accordingly.

4.66. For the avoidance of doubt, regulatory tax losses are not carried back and offset against tax liability allowances for Relevant Years earlier than the Relevant Year to which the regulatory tax loss concerned is attributable.

4.67. Only negative incremental changes in TGIE/SOTGIE value are possible (resulting from a positive tax saving multiplied by minus one - see paragraph 4.58).

4.68. A negative incremental change in a TTE/SOTTE value or TGIE/SOTGIE value will decrease the 'recalculated base revenue figure' for the Relevant Year concerned by the equivalent amount. However, if the modelled tax liability (in the ET1 PCFM under the Annual Iteration Process) for the Relevant Year concerned is smaller (in absolute terms) than the aggregate change in the TTE, SOTTE, TGIE and SOTGIE value for that year, then:



- a portion of the aggregate incremental change in the TTE/SOTTE and TGIE/SOTGIE values equal to the modelled tax liability will be deducted from the recalculated base revenue figure for the Relevant Year concerned; and
- the remaining amount will be added to the regulatory tax loss balance for the Relevant Year concerned and carried forward.

## 5. Corporate debt - allowed percentage cost financial adjustment methodology

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### Overview

5.1. The allowed revenue totals for each licensee include amounts to cover the efficient cost of raising finance for the transmission business from external sources. This is commonly referred to as the 'cost of capital'. Cost of capital allowances are calculated as a percentage return on the licensee's Regulatory Asset Value (RAV). The percentage represents Ofgem's estimate of the weighted average cost of capital (WACC)<sup>25</sup> for the transmission business. The WACC is determined using a pre-tax cost of corporate debt percentage, a post-tax real cost of equity percentage and a weighting (notional gearing) percentage.

5.2. Under the RIIO-T1 price control the cost of equity and notional gearing percentages are fixed for the whole of the Price Control Period. However, the corporate debt cost percentage is updated on an annual basis with reference to a trailing average index of debt costs. The update is effected through the annual iteration of the ET1 Price Control Financial Model (PCFM).

5.3. The use of an indexed corporate debt percentage means that allowed revenues are appropriately updated to reflect debt market conditions. As a result, consumers will derive a benefit when debt costs fall whilst licensees and their investors are provided with assurance that higher, efficiently incurred debt costs will be funded.

5.4. The basis for updating the cost of debt index percentage value by revising PCFM Variable Values for the licensee's allowed TO percentage cost of corporate debt ('TO CDE' values) is established in Special Condition 6D (Specified financial adjustments – Transmission Owner). Special Condition 6D requires revised TO CDE values to be determined in accordance with the methodology in this Chapter.

### **National Grid Electricity Transmission plc (NGET) – System Operator price control**

5.5. Special Condition 7C (Specified financial adjustments – System Operator) of NGET's licence provides for PCFM Variable Values for the licensee's allowed SO percentage cost of corporate debt ('SO CDE' values) to be determined in accordance with the methodology in this Chapter. The SO CDE value for any Relevant Year is the same as the TO CDE Value for the same year.

### **Temporal conventions**

5.6. For the purposes of Special Condition 6D, 7C and this Chapter:

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<sup>25</sup> see Glossary

- “Relevant Year t” means the Relevant Year in which a value for the term MOD, or as applicable SOMOD, calculated through a particular Annual Iteration Process, is used in the formula for the licensee’s base transmission revenue<sup>26</sup>/ internal costs revenue.

## Methodology for determining revised PCFM Variable Values for the cost of corporate debt

5.7. At the outset of the Price Control Period (1 April 2013), the CDE value for every Relevant Year will be the pre-tax cost of debt percentage for the licensee set down in RIIO-T1 Final Proposals or other relevant decision documents relating to licensees who were ‘fast-tracked’ in respect of the RIIO-T1 price control review.

5.8. Revised CDE values are to be derived using the pounds sterling indices of bonds issued by non-financial institutions which have a remaining maturity of 10 or more years contained in the Markit iBoxx® database of bond market data.

5.9. A revised CDE value will be determined in accordance with the methodology set out below and directed in respect of each Annual Iteration Process for Relevant Year t and subsequent Relevant Years. However, only the revised CDE<sup>27</sup> value for Relevant Year t will impact on the value of MOD for the same Relevant Year t<sup>28</sup>.

5.10. The following steps are to be followed to determine the revised CDE value:

### Step 1

Establish the ‘trading days period’<sup>29</sup> to be used in relation to the particular Annual Iteration Process:

<b>Annual Iteration Process taking place not later than:</b>	<b>Trading days period</b>
30 November 2013	1 November 2003 to 31 October 2013
30 November 2014	1 November 2004 to 31 October 2014

<sup>26</sup> See Special Condition 3A/4A (Restriction on Transmission Network Revenue).

<sup>27</sup> SO CDE value with respect to the value of SOMOD

<sup>28</sup> Subject to revision of an earlier value – see paragraph 5.8

<sup>29</sup> Trading days as published in the Markit iBoxx® database

30 November 2015	1 November 2005 to 31 October 2015
Et seq.....	Et seq.....

Step 2

For each day in the trading day period ascertained under Step 1, calculate the average of the annual yield figures from the following two iBoxx Sterling Non-Financial Indices:

- (i). A 10+ index                      Markit iBoxx series reference: DE000A0JY837; and
- (ii). BBB 10+ index                 Markit iBoxx series reference: DE000A0JZAH1

The above indices will be sourced from the Markit data service, to which Ofgem is subscribed. The A 10+ index covers bonds rated "A+", "A", and "A-" according to Markit iBoxx's published methodology and the BBB 10+ index covers bonds rated "BBB+", "BBB", and "BBB-". Each index only produces one annual yield figure for each day. Therefore, the average for each day is calculated as:

$$\frac{\text{"A 10+ index" annual yield figure for day} + \text{"BBB 10+ index" annual yield figure for day}}{2}$$

Step 3

For each day in the trading day period ascertained under Step 1, obtain a 'breakeven inflation' figure for 10-year government-issued bonds by applying the following formula:

$$\pi = (1 + i) / (1 + r) - 1$$

where:

- $\pi$      is the Ofgem imputed breakeven inflation figure.
- $i$      is the Yield From British Government Securities, 10 Year Nominal Zero Coupon – series reference IUDMNZC; and
- $r$      is the Yield From British Government Securities, 10 Year Real Zero Coupon – series reference IUDMRZC.

The above series will be sourced from the statistics page on the Bank of England's website.<sup>30</sup> In the event that the above data series does not include an entry that exactly matches the date from the Markit iBoxx series, the nearest older entry is to be used.

#### Step 4

For each day in the trading day period ascertained under Step 1, deflate the average of the annual yield figures obtained under Step 2 using the Bank of England's 'breakeven inflation' figure obtained under Step 3, using the following formula:

$$CoD = (1 + iBoxx) / (1 + \pi) - 1$$

where:

*CoD* is the daily deflated average of the annual yield figures;

*iBoxx* is the average of the annual yield figures obtained under Step 2; and

$\pi$  is the Ofgem imputed breakeven inflation figure obtained under Step 3.

This step converts the nominal bond yields in the iBoxx data to a real cost of debt value.

#### Step 5

Calculate the average value of *CoD* across the trading day period ascertained under Step 1.

This average, expressed as a percentage, constitutes the revised PCFM Variable Value for the cost of corporate debt which will be directed and entered into the PCFM to two decimal places.

### **Non-availability of iBoxx or Bank of England data**

5.11. If, for any reason, iBoxx data or Bank of England data is unavailable for an entire trading days period in time to determine revised PCFM Variable Values for the cost of corporate debt for any Annual Iteration Process, then for that Annual Iteration Process only, the trading days period concerned shall be deemed to have ended on the last trading day for which data has been published. If the data concerned is subsequently published, revised PCFM Variable Values for the affected Relevant Years will be directed.

<sup>30</sup> <http://www.bankofengland.co.uk>

5.12. If, for any reason, the iBoxx or Bank of England series identified above cease to be published, or if there is a material change in the basis of those indices, Ofgem will consult on alternatives, as well as on any reconciliation that may need to be undertaken between the above series and any replacements.

**Variation of approach for SHE Transmission plc**

5.13. SHE Transmission plc (SHETPLC) is expected to carry out a large capital assets investment programme during the RIIO-T1 period in respect of which it may need to raise significant amounts of debt financing. Therefore, it can be expected that SHETPLC’s effective cost of debt may be proportionately closer to current market rates than will be the case for other licensees.

5.14. To address this issue, the average annual yield figures used in calculating revised PCFM Variable Values for the cost of corporate debt for SHETPLC are subjected to a weighting process based on changes to SHETPLC’s RAV during the RIIO-T1 period.

5.15. Revised PCFM Variable Values for the cost of corporate debt for SHETPLC are calculated in accordance with the following formula:

$$SHETL IV_t = \left[ IV_t \times \left( \frac{\text{Opening RAV 2013-14}}{\text{Closing RAV t-1}} \right) \right] + \left[ \text{Average of CoD From 1 Apr to 31 Oct in t-1} \times \left( \frac{\text{Change in RAV for t-1}}{\text{Closing RAV t-1}} \right) \right] + \sum_{2013-14}^{t-2} \left[ \text{Average of CoD From 1 Apr to 31 Mar} \times \left( \frac{\text{Change in RAV}}{\text{Closing RAV t-1}} \right) \right]$$

where:

SHETPLC IV<sub>t</sub> means the revised TO CDE value for SHETPLC for Relevant Year t.

IV<sub>t</sub> means the cost of debt index PCFM Variable Value for all other licensees determined under Steps 1 to 5 above.

RAV means the Regulatory Asset Value for SHETPLC (inclusive of ‘shadow’ RAV<sup>31</sup>) for the specified Relevant Years, expressed in nominal prices.

For this purpose, RAV values expressed in nominal prices will be obtained using the following procedure:

- o after 31 October in Relevant Year t-1, Ofgem will take a copy of the PCFM in its state following the last completed Annual Iteration Process, but including any subsequent functional modifications under Special Condition 5A;
- o Ofgem will apply to that copy, all of the prospective revised PCFM variable Values which it has by that time determined for use in the

<sup>31</sup> See Glossary

Annual Iteration Process that is required to take place by 30 November in that same regulatory year  $t-1$ <sup>32</sup>.

- Ofgem will run trial calculations using those values and extract the nominal RAV values which are generated within the copy model as a result.

**CoD** means a deflated average annual yield figure determined in accordance with the formula at Step 4 above, but in respect of the period specified in this formula.

5.16. It should be noted that the RAV values for SHETPLC, recorded in the PCFM, and used in calculating values of the term SHETPLC IV may subsequently be changed by other aspects of Annual Iteration Processes. In those instances, revised TO CDE values for SHETPLC will be calculated and directed for any affected Relevant Years.

### **Use of revised PCFM Variable Values in the Annual Iteration Process**

5.17. The Authority will direct revised TO CDE<sup>33</sup> values by no later than 30 November in each relevant Year  $t-1$  in accordance with Part D of Special Condition 6D. Notice of proposed revised values will be given to licensees at least 14 days before the date of the direction.

5.18. PCFM Variable Values for the cost of corporate debt will be directed together with all other types of PCFM Variable Value. Further information on the process is given in Chapters 1 and 2.

5.19. The data and spreadsheet used to calculate revised TO CDE and SO CDE values will be published on the Ofgem website together with the weighted index used for the SHETPLC calculations referred to above, and will be provided to the licensees with initial notification of the revised values.

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<sup>32</sup> For the purpose of the Annual Iteration Process itself these prospective values remain contingent upon the notification and direction processes specified in relevant Special Conditions

<sup>33</sup> and SO CE values for NGET

## 6. Totex incentive mechanism – financial adjustment methodology

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6.1. For RIIO-T1 Final Proposals opening base revenues will have been modelled on the basis that actual Totex<sup>34</sup> expenditure levels are expected to equal allowed Totex expenditure levels (allowances). If actual (outturn) expenditure differs from allowances, for any Relevant Year during the Price Control Period, the Totex incentive mechanism (TIM) provides for an appropriate sharing of the incremental amount (whether an overspend or underspend) between consumers and licensees.

6.2. The ET1 Price Control Financial Model (PCFM) contains values for both actual Totex expenditure and allowed Totex expenditure levels which, as mentioned above, are initially equal to each other. Both the actual and allowed expenditure values contained in the PCFM can be varied for the purposes of applying the TIM through the Annual Iteration Process.

### *Actual Totex expenditure*

6.3. Actual Totex expenditure is divided into several sub-divisions to facilitate varying tax pool treatments under the Annual Iteration Process calculations. This Chapter sets out the process by which the actual Totex expenditure values in the PCFM can be revised. It also describes the way in which revised figures for Totex flow into the calculation of the terms  $MOD_t$  and  $SOMOD_t$ <sup>35</sup>.

6.4. Special Conditions 6C (Determination of PCFM Variable Values for Totex Incentive Mechanism Adjustments – Transmission Owner) and 7B (Determination of PCFM Variable Values for Totex Incentive Mechanism Adjustments – System Operator)<sup>31</sup> provide for the Authority to determine revised PCFM Variable Values for the licensee relating to actual Totex expenditure levels. They also set out the procedures for the direction of those values so that they can be used for the Annual Iteration Process.

### *Allowed Totex expenditure*

6.5. The procedures for determining and directing revised PCFM Variable Values relating to allowed Totex expenditure levels are covered in the Chapters of this handbook shown in Table 6.1 below:

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<sup>34</sup> See Glossary

<sup>35</sup> For National Grid Electricity Transmission plc (NGET) only



**Table 6.1 – Special Conditions with provisions to revise PCFM Variable Values relating to allowed Totex expenditure levels**

Special Condition	PCFM Variable Value	Relating to	Handbook Chapter
6E	IRM	Innovation Roll-out allowed expenditure	12
6F	GCE	Baseline generation connection outputs and generation connections volume driver	10
6G	EPIE	Enhancement to Pre-existing Infrastructure	11
6H	IAEEPS IAEBT IAEWL IAEWR	Enhanced Physical Site Security Costs BT 21st Century Costs (SHETPLC <sup>36</sup> only) Wayleave compensation costs (SHETPLC only) Workforce renewal (SPTL only) <sup>37</sup>	7
6I	WWE	Wider Works allowed expenditure	8
6J	IWW	Network development policy and the Wider Works volume driver (NGET <sup>38</sup> only)	9
6K	DUV	Undergrounding uncertainty volume driver (NGET only)	13
6L	DRI	Demand related infrastructure volume driver (NGET only)	14
7D	SOIAEEPS	Enhanced Security Costs	7

**Description of the Totex Incentive Mechanism**

6.6. In the remainder of this Chapter, references to the term MOD should be taken to include SOMOD and references to Special Condition 6C should be taken to include Special Condition 7B.

6.7. The Totex Incentive Mechanism (TIM) applies adjustments to the Totex figure used in the fast/slow money modelling of base revenue figures under the Annual Iteration Process. The adjustments reflect the amount of under or over expenditure by the licensee against Totex allowances and the relevant incentive strength for each licensee. The incentive strength is a percentage figure specified in Special Condition 6C for each licensee. It represents the percentage that a licensee bears in respect of an overspend against allowances or retains in respect of an underspend against

<sup>36</sup> SHE Transmission plc

<sup>37</sup> SP Transmission Ltd

<sup>38</sup> National Grid Electricity Transmission plc

allowances. The adjustment that is made to the Totex figures is the Funding Adjustment Rate (often called the 'sharing factor') which is calculated as  $1 - \text{incentive strength}$ . Applying the Funding Adjustment Rate to the over (or under spend) gives the amount that is added to (or subtracted from) the totex allowances included in base revenues.

6.8. The TIM uses the actual Totex expenditure values reported to Ofgem by 31 July each year (subject to any revisions that may be required for reporting inaccuracies or for expenditure that is not regarded as efficient) and adjusts revenues in the following Relevant Year via the MOD term. The incentive mechanism therefore operates with a two year lag.

6.9. Totex, once ascertained under the TIM, is modelled using the Totex Capitalisation Rate(s) applicable to the licensee, as:

- fast money – flowing directly to the base revenue figure for the Relevant Year to which the allowed expenditure relates; and
- slow money - additions to the licensee's RAV in the Relevant Year to which the allowed Totex expenditure relates, generating an adjustment to allowed revenues through the cost of capital return on RAV and depreciation amount.

6.10. Totex Capitalisation Rates are specified at Appendix 1 to Special Conditions 6C and 7B and are hard coded into the PCFM as fixed input values for the licensee.

6.11. Under the Annual Iteration Process, the effects of this modelling treatment, (including any ancillary effects in respect of eg tax allowances) are reflected in the value of the term  $MOD_t$ .

#### *Totex Incentive Mechanism - illustrative examples*

6.12. Basic, illustrative examples of the calculation approach are set out below:

Opening position:

allowed Totex expenditure:	100
assumed actual Totex expenditure:	100
over/underspend:	nil
Totex amount for fast/slow money treatment	100

Revised position – scenario 1:

allowed Totex expenditure:	110
actual Totex expenditure	90
underspend:	(20)
incentive strength say 40% (or 0.4)	

Totex adjustment $(1 - 0.4) \times (20)$	(12)
Totex amount for fast/slow money treatment 110 - 12	98

Revised position – scenario 2:

allowed Totex expenditure:	110
actual Totex expenditure	120
overspend:	10
incentive strength say 40% (or 0.4)	
Totex adjustment $(1 - 0.4) \times 10$	6
Totex amount for fast/slow money treatment 110 + 6	116

6.13. The reduced Totex amount for fast/slow money treatment in scenario 1 represents a clawback of part of the underspend achieved by the licensee to benefit consumers. The increased Totex amount for fast/slow money treatment in scenario 2 represents a reimbursement of part of the overspend incurred by the licensee.

#### Application of the TIM under the Annual Iteration Process

6.14. For the purposes of Special Condition 6C and this Chapter, “Relevant Year  $t$ ” means the Relevant Year in which a value for the term MOD calculated through a particular Annual Iteration Process, is used in the formula for the licensee’s base transmission revenue/ internal costs revenue<sup>39</sup>.

6.15. The opening values for actual Totex expenditure contained in the PCFM will be revised to reflect outturn values (in 2009-10 prices) reported by the licensee in its annual cost reporting submission, subject to review by Ofgem. The normal revision cycle will be:

Relevant Year $t-2$ :	Totex expenditure incurred;
Relevant Year $t-1$ :	Outturn expenditure levels reported to Ofgem by 31 July;
Relevant Year $t-1$ :	Revised PCFM Variable Values for actual Totex expenditure determined and directed by the Authority by 30 November;  [and, as applicable, revised PCFM Variable Values for categories of allowed Totex expenditure determined/directed – see relevant handbook Chapters]
Relevant Year $t-1$ :	Value for $MOD_t$ directed by the Authority by 30 November;

<sup>39</sup> See Special Conditions 3A (Restriction of Transmission Network Revenue) and (for NGET only) Special Condition 4A (Restriction of System Operator Internal Revenue).

Relevant Year t: Value for  $MOD_t$  effective in formula for licensee's Base Revenue.

The incentive mechanism therefore operates with a two year 'lag'.

6.16. The Authority can determine and direct revised PCFM Variable Values for actual Totex expenditure for years earlier than Relevant Year t-2 for use in any Annual Iteration Process, but only where necessary to address a restatement of, or correction to, price control cost information submitted by the licensee.

6.17. Allowed Totex expenditure levels will be revised in accordance with the provisions of applicable scheme licence conditions and the associated methodologies in this handbook. In instances where allowed Totex expenditure levels are revised for Relevant Year t-1 or later (in relation to the timeline set out in paragraph 6.153), the PCFM will automatically update expected actual Totex expenditure levels to equivalent amounts for those years. This is consistent with the modelling rationale described in the opening paragraph of this Chapter.

6.18. It should be noted that:

- each Annual Iteration Process re-runs the TIM calculations for each Relevant Year up to Relevant Year t-2 (for later years the TIM is neutral – see paragraph 6.15);
- the outstanding effect of those calculations is reflected in the value of  $MOD_t$ ; and
- the PCFM works in constant 2009-10 prices, but applies adjustments to ensure that the effect of PCFM Variable Value revisions are NPV neutral with respect to Relevant Year t.

### **Total expenditure ("Totex")**

6.19. A full definition of the expenditure items which are eligible for Totex treatment is given in the Cost and Revenue Reporting Regulatory Instructions and Guidance (RIGs) document referred to in Standard Condition B15 (Regulatory Instructions and Guidance) of the licence. In summary Totex consists of all the items of expenditure required for the licensee to carry on the transmission business with the exception of:

- Costs relating to de minimis activities;
- costs relating to excluded services activities (with the exception of capex relating to sole use exit connections);
- pension deficit repair payments relating to the 'established deficit' and for the avoidance of doubt, all unfunded early retirement deficiency costs (ERDC) post 1 April 2004;
- Pension Scheme Administration and PPF levy costs;
- costs associated with specific incentive schemes (eg TIRG);

- statutory or regulatory depreciation and amortisation;
- profit margins in payments to related parties (except where permitted);
- costs relating to rebranding a company's assets or vehicles following a change of trading name or logo;
- fines and penalties incurred by the licensee (including all tax penalties, fines and interest) except if, exceptionally, Traffic Management Act penalty costs can be shown to be efficient;
- compensation payments made in relation to standards of performance;
- bad debt costs and receipts (subject to an ex post adjustment to allowed revenues);
- any asset revaluation amounts;
- costs related to the SF6 incentive;
- costs relating to the network innovation allowance;
- the reversal, where appropriate, of cost reporting which is not on a normal accruals basis;
- costs in relation to pass-through items including:
  - business rates (except for business rates on non-operational buildings),
  - NTS exit charges, and
  - Ofgem licence fees;
- interest, other financing and tax costs (except for business rates on non-operational buildings and stamp duty land tax).

6.20. It should also be noted that:

- any change in the Totex amount for the licensee under the TIM is included as an adjustment to fast/ slow money;
- pension deficit repair payments relating to any incremental deficit (ie not part of the established deficit) are considered to be part of the licensee's benchmarked labour costs and as such are part of Totex; and
- customer contributions (which mainly relate to connection works) and other proceeds received (including from legal and insurance claims) that relate to the transmission business are treated as an offset to Totex expenditure, unless specifically subject to different treatment under the Cost and Revenue reporting RIGs.

### **Determination of PCFM Variable Value revisions for actual Totex expenditure**

6.21. Following a review by Ofgem, the Authority will, by 30 November (or as soon as reasonably practicable thereafter) in each Relevant Year t-1, determine that the

PCFM Variable Values for Relevant Year t-2, shown in the first column of Table 6.1 below, should be revised to match the equivalent actual expenditure values in the licensee's annual cost reporting submission for the Totex sub-division shown in Table 6.1.

6.22. As noted in paragraph 6.14, the Authority can also determine and direct revised PCFM Variable Values for actual Totex expenditure for years earlier than Relevant Year t-2 where that is necessary to address a restatement of, or correction to, price control cost information submitted by the licensee.

Table 6.1 – PCFM Variable Values for actual Totex

<b>PCFM Variable Value</b>	<b>Totex sub-division</b>
ALC	Actual load related capex expenditure
ARC	Actual asset replacement capex expenditure
AOC	Actual other capex expenditure
ACO	Actual controllable opex expenditure
ANC	Actual non-operational capex
SOACO <sup>40</sup>	Actual controllable opex expenditure (system operator)
SOANC <sup>34</sup>	Actual non-operational capex expenditure (system operator)

6.23. The items of expenditure included in each of the Totex sub-divisions set out in Table 6.1 are specified in the Cost and Revenue Reporting RIGs.

### **Notification and direction of revised PCFM Variable Values**

6.24. The PCFM exists as a constituent part of Special Condition 5A (Governance of ET1 Price Control Financial Instruments). It has an input area for each licensee containing both fixed values and variable values. The values that can vary are contained in the PCFM Variable Values Table 6.1.

6.25. During each Relevant Year t-1, the Authority will determine whether any PCFM Variable Values for the licensee relating to actual Totex expenditure should be revised. Part C of Special Condition 6C, requires the Authority to give the licensee at least 14 days notice of any such proposed revisions, to allow for any representations or objections. The Authority is required to have due regard to any representations received from the licensee and to give reasons for its decisions in relation to them.

<sup>40</sup> NGET only

6.26. The Authority is required to direct any PCFM Variable Value revisions by 30 November in Relevant Year t-1, so the notice of proposed values will be given no later than 16 November in the same year. In practice, the Authority will give notice of the proposed values as soon as practicably possible in Relevant Year t-1.

6.27. Ofgem will carry out the Annual Iteration Process in accordance with Special Conditions 6C and 7B (see Chapter 1).

## 7. Uncertain costs allowed expenditure – financial adjustment methodology

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### Part 1 - Overview

7.1. Appropriate levels of allowed Totex<sup>41</sup> expenditure for some transmission business activities/requirements, will be uncertain at the time of the RIIO-T1 Final Proposals. For RIIO-T1 Final Proposals, opening base revenues will have been modelled using forecast values relating to these uncertain cost categories.

7.2. The ET1 Price Control Financial Model (PCFM) contains values relating to allowed Totex expenditure on uncertain cost categories that can be varied for the purposes of the Annual Iteration Process. This means that the term  $MOD_t$  included in the formula for the licensee's Base Revenue (and the term  $SOMOD_t$  included in the formula for internal costs revenue<sup>37</sup>) can take account of up to date allowed expenditure levels for uncertain cost categories for the purposes of the Totex Incentive Mechanism described in Chapter 6 of this handbook.

7.3. PCFM Variable Values relating to uncertain cost categories are stated in constant 2009-10 prices, consistent with the price base used in the PCFM and the values for the terms MOD and SOMOD. The allocation of allowed expenditure for uncertain cost categories into the Totex sub-divisions referred to in paragraph 6.3 of Chapter 6 is handled automatically under the Annual Iteration Process using fixed attribution rates contained in the PCFM.

7.4. Special Conditions 6H (Arrangements for the recovery of uncertain costs) and 7D (Arrangements for the recovery of SO uncertain costs)<sup>42</sup> provide for the Authority to determine relevant adjustments to allowed Totex expenditure on uncertain cost categories following a proposal made either by the licensee or the Authority.

7.5. Special Conditions 6H and 7D also provide for the Authority to determine revised PCFM Variable Values for uncertain costs categories in accordance with the methodology set out in this Chapter to give effect to adjustments which have been determined. They also set out the procedures for the direction of revised PCFM Variable Values so that they can be used for the Annual Iteration Process.

7.6. The uncertain cost categories are set out in Table 7.1 below, alongside the applicable licence condition. Table 7.1 also shows the licensee(s) to whom each uncertain cost category applies and the name of the associated variable value contained in the PCFM.

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<sup>41</sup> See Glossary

<sup>42</sup> For National Grid Electricity Transmission plc (NGET) only



**Table 7.1 – Uncertain cost categories**

<b>Uncertain cost</b>	<b>Licence Condition</b>	<b>Licensees affected</b>	<b>PCFM Variable Value name</b>
Enhanced Physical Site Security Transmission Owner	6H	All	IAEEPS
Enhanced Security Costs - System Operator	7D	NGET	SOIAEEPS
BT® 21 <sup>st</sup> Century	6H	SHETPLC	IAEBT
Compensation for wayleaves	6H	SHETPLC	IAEWL
Workforce renewal	6H	SPTL	IAEWR

**Overview of uncertain cost categories**

7.7. Special Conditions 6H and 7D specify that any proposal for a relevant adjustment to an uncertain cost category must:

- be based on information about actual or expected costs that was not available when the licensee’s opening base revenues were calculated;
- take into account any prior relevant adjustments;
- relate to a material amount;
- relate to costs incurred or expected to be incurred after 1 April 2013; and
- constitute an adjustment that cannot be made under the provisions of any other Special Condition of the licence.

7.8. The stipulation that proposals must take account of any prior relevant adjustments is intended to ensure that relevant costs are not ignored on the one hand, or double counted on the other.

*Enhanced Physical Site Security – Transmission Owner*

7.9. This category relates to costs incurred by the licensee in complying with any requirements or formal recommendations issued by the Secretary of State for Energy and Climate Change in relation to the physical security of sites associated with the licensee’s Transmission System.

*Enhanced Security Costs - System Operator*

7.10. This category is applicable to National Grid Electricity Transmission plc (NGET) only and relates to costs incurred by the licensee in complying with any requirements

or formal recommendations issued by the Secretary of State for Energy and Climate Change in relation to the security of information technology systems associated with the operation of the national transmission system.

*BT® 21st Century related costs*

7.11. This category is applicable to SHETPLC only. It relates to costs incurred in upgrading operational telecommunication systems as a consequence of the introduction of BT's 21st Century Networks programme.

*Compensation for wayleaves*

7.12. This category is applicable to SHETPLC only. It relates to the cost of maintaining wayleave agreements/deeds of servitude associated with the location of assets forming parts of the licensee's transmission system.

*Workforce renewal*

7.13. This category is applicable to SPTL only. It relates to the cost of recruiting and training a stable workforce.

**Temporal conventions**

7.14. For the purposes of Special Conditions 6H, 7D and this Chapter, "Relevant Year t" means the Relevant Year in which a value for the term MOD, calculated through a particular Annual Iteration Process<sup>43</sup>, is used in the formula for the licensee's Base Transmission Revenue<sup>44</sup>. References to Relevant Year t-1 etc should be construed accordingly.

7.15. A reference to, for example, *the IAEEPS value for 2015-16* means the IAEEPS value in the 2015-16 column of the PCFM Variable Values Table for the licensee contained in the ET1 Price Control Financial Model.

7.16. Where revisions to PCFM Variable Values are directed for Relevant Years earlier than Relevant Year t, the effect of using those revised values in the Annual Iteration Process for the ET1 Price Control Financial Model will, subject to a Time Value of Money adjustment, be reflected in the calculation of the term MOD, or as applicable, SOMOD for Relevant Year t and, for the avoidance of doubt no previously directed value of the term MOD or SOMOD will be retrospectively affected.

7.17. Revisions to PCFM Variable Values directed for Relevant Years later than Relevant Year t do not feed into the calculation of the term MOD<sub>t</sub> (or SOMOD<sub>t</sub>) but

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<sup>43</sup> and/or SOMOD for NGET

<sup>44</sup> See Special Condition 3A (Restriction of Transmission Network Revenue) and 4A (Restriction of System Operator Internal Revenue).

(subject to further determinations) have status as values determined under the provisions of Special Condition 6H or, as applicable, 7D.

## **Part 2 - Determination of PCFM Variable Value revisions for uncertain cost categories**

7.18. In the remainder of this Chapter, references to the term MOD should be taken to include the term SOMOD and references to Special Condition 6H should be taken to include Special Condition 7D, with respect to NGET.

### **Determinations in relation to proposed adjustments**

7.19. Proposals for relevant adjustments in respect of uncertain cost categories can only be made by the licensee or the Authority during application windows specified in Special Condition 6H. Proposals must be made in the form of notices given by the licensee to the Authority or vice versa.

7.20. Following the end of each application window the Authority has four months to confirm, reject or vary the proposed adjustment in a determination decision. In reaching that decision the Authority must:

- consult with the licensee concerned and other interested parties;
- have particular regard to the purposes of the licence condition; and
- take no account of the general financial performance of the licensee under the price control arrangements.

7.21. If the Authority does not make a determination decision in relation to a duly submitted adjustment proposal within the four month period referred to in paragraph 7.20, then the adjustment is deemed to have been made.

### **Determination of PCFM Variable Values**

7.22. It follows from the timetable outlined in paragraphs 7.19 to 7.21 above that the Authority will only determine revised PCFM Variable Values relating to uncertain cost categories (as set out in Table 7.1) for use in the Annual Iteration Processes in the year in which an application window arises. The Annual Iteration Process will take place by 30 November, eg following the first reopener window in May 2015 the Annual Iteration Process will take place by 30 November 2015 in order to calculate the value of the terms MOD<sub>t</sub> and SOMOD<sub>t</sub> for Relevant Year 2016-17.

7.23. It should be noted that the determination can amend PCFM Variable Values for any years in the RIIO-T1 period.

7.24. The following procedures will be carried out by the responsible Ofgem team to facilitate the determination of any revised PCFM Variable Values relating to uncertain cost categories for the Annual Iteration Processes referred to in paragraph 7.22:

- on or shortly after 1 June, a check will be made on whether any relevant adjustments were proposed during the application window which has just closed and the position noted;
- liaison will be maintained with the Ofgem team responsible for the review of proposed adjustments and any determination made by the Authority will be noted;
- on or shortly after 1 October the aggregate net adjustment (whether upward or downward) for the licensee in respect of each uncertain cost category will be ascertained by totalling the amounts of:
  - any determinations of relevant adjustments made by the Authority;
  - any adjustments duly proposed by the licensee, and not withdrawn, which have not been determined by the Authority; and
- each aggregate net adjustment will be rebased to the 2009-10 price base used in the PCFM in accordance with paragraph 1.7 of Chapter 1 of this handbook.

7.25. Each aggregate net adjustment ascertained under paragraph 7.20 will be applied to the equivalent pre-existing PCFM Variable Value contained in the PCFM for the licensee and the resulting figure will be determined by the Authority to be the revised PCFM Variable Value for that uncertain costs category.

7.26. For the avoidance of doubt, under the procedures outlined in paragraphs 7.19 and 7.20 the Authority can determine a revision to the PCFM Variable Value relating to an uncertain cost category for any Relevant Year during the Price Control Period, where that is necessary to reflect the determination (or deeming) of a relevant adjustment in respect of that uncertain cost category.

### **Part 3 - Notification and direction of revised PCFM Variable Values**

7.27. Special Condition 6H provides for the licensee to be notified of any relevant adjustment determinations within 14 days of the making of the determination. However, consistent with the provisions of other Special Conditions providing for the determination of PCFM Variable Values, there is an additional formal procedure for the notification and direction of revised PCFM Variable Values, set out in Part C of Special Condition 6H.

7.28. The Authority will give notice of the PCFM Variable Value revisions that it proposes to direct by 16 November, being at least 14 days before the deadline date for the direction of revised PCFM Variable Values which is 30 November. The notice will confirm that:

- any revised PCFM Variable Value determinations have been made in accordance with Part B of Special Condition 6H, which cross refers to this Chapter of the ET1 Price Control Financial Handbook; and
- the licensee has 14 days from the date of the notice in which to make any representations concerning the proposed PCFM Variable Value revisions.

7.29. The Authority is required to have due regard to any representations or objections made by the licensee and to give its reasons for any decisions in relation to them.

7.30. As set out in paragraph 7.22, the Authority will not determine PCFM Variable Value revisions for uncertain cost categories by November in years in which there is no application window. However, the overall direction issued in those years will include a facsimile of the PCFM Variable Values Table(s) for the licensee showing the post direction state of all PCFM Variable Values. This will serve to confirm the state of the PCFM Variable Values relating to uncertain cost categories.

### **Delay in direction of revised PCFM Variable Values**

7.31. If the procedures set out in Special Condition 6H and in Parts 2 and 3 of this Chapter call for the Authority to direct revised PCFM Variable Values for uncertain cost categories by 30 November and if the Authority does not make such a direction, then Special Condition 6H requires that the values should be directed by the Authority as soon as is reasonably practicable to facilitate the notification and direction of the value of the term  $MOD_t$  under Special Condition 5B (Annual Iteration Process for the ET1 Price Control Financial Model).

## 8. Strategic wider works outputs allowed expenditure - financial adjustment methodology

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8.1. The term 'Wider Works Outputs' refers to the national electricity transmission system and the need to reinforce or extend it to meet existing and future customer requirements. The reinforcement will provide additional transmission capacity and/or boundary transfer capability. The development of schemes must be in accordance with the planning criteria set out in the National Electricity Transmission System Security and Quality of Supply Standards.

8.2. The modelling of opening base revenue allowances for each licensee (set down in the table at Appendix 1 to Special Condition 3A) includes forecast amounts to cover expenditure on an agreed set of Baseline Wider Works Outputs. However, it may be necessary to adjust the licensee's allowed expenditure levels and Transmission Network Activity Revenue (upwards or downwards) during the course of the RIIO-T1 price control to reflect:

- (i). amendments to Wider Works outputs;
- (ii). additional Wider Works outputs; and
- (iii). changes to the costs associated with Wider Works outputs.

8.3. The provisions for these types of adjustment are contained in Special Condition 6I (Specification of Baseline Wider Works Outputs and Strategic Wider Works Outputs and Assessment of Allowed Expenditure).

8.4. In addition, the licensee's allowed expenditure and Base Transmission Network Activity Revenue will be adjusted to reflect the differences in the actual change of boundary transfer capabilities compared to the expected baseline amount of change in each year of the Price Control Period. The provisions in this respect are contained in Special Condition 6J (Allowed Expenditure for Incremental Wider Works Wider Works).

8.5. Any adjustments to allowed expenditure of the type referred to above also need to be factored into the licensee's Total Allowed Totex figures for the purposes of the Totex Incentive Mechanism (see Chapter 6).

8.6. Required adjustments are applied through the Annual Iteration Process for the ET1 Price Control Financial Model (PCFM) using revised PCFM Variable Values determined under Special Conditions 6I and 6J. These conditions include some licensee-specific determination provisions.

### **Temporal convention**

8.7. For the purposes of Special Condition 6I and this Chapter, "Relevant Year  $t$ " means the Relevant Year in which a value for the term MOD, calculated through a particular Annual Iteration Process, is used in the formula for the licensee's base transmission revenue.

## **Allowed Expenditure – Strategic Wider Works Outputs (WWE)**

8.8. The PCFM contains the forecast expenditure amounts referred to in paragraph 8.2 which were used in the calculation of opening base revenue allowances. These figures can be supplanted for calculations under the Annual Iteration Process by revision to the PCFM Variable Value WWE.

8.9. WWE values are determined in 2009-10 prices, consistent with the price base used in the PCFM.

8.10. Under the Annual Iteration Process, the updated allowed expenditure values are used in the calculation of new revenue figures for affected Relevant Years. These in turn feed through to the calculation of the term MOD for Relevant Year t.

8.11. The primary PCFM Variable Value revisions for WWE in respect of each Annual Iteration Process relate to the PCFM Year which equates to Relevant Year t. However, there may be occasions when the Authority needs to direct that PCFM Variable Values entered for preceding PCFM Years are to be revised to reflect a directed change to allowed expenditure for the year(s) concerned under Part D of 6I. Part G of Special Condition 6I provides for revised values to be directed when appropriate. In Part H of Special Condition 6I, table 6 (in NGET & SPTL's condition, and Table 5 in SHET) summarises the revised allowances and total WWE term for each year of the Price Control.

8.12. Because PCFM Variable Value revisions for WWE are entered against the PCFM Year which equates to Relevant Year t, the Annual Iteration Process also treats those allowed expenditure figures as provisional outturn expenditure figures in calculating the base revenue factor for that year (and hence the value of the MOD term). If this modelling assumption were not made, an apparent over/under spend equal to the value of the incremental change in allowed expenditure would inappropriately be included in the Totex Incentive Mechanism adjustment for the year concerned. This approach is consistent with the pre-price control modelling of opening Base Revenue figures, in respect of which projected actual expenditure is considered to be the same as projected allowed expenditure. In due course, actual outturn expenditure levels for the year concerned are picked up through a subsequent Annual Iteration Process as part of revised PCFM Variable Values for the TO Totex Incentive Mechanism Adjustment under Special Condition 6C (Determination of PCFM Variable Values for Totex Incentive Mechanism).

8.13. The first Annual Iteration Process for the PCFM in which any revised PCFM Variable values for WWE will be directed is the Annual Iteration Process that will take place not later than 30 November 2013 in order to establish the value of the term MOD for the Relevant Year beginning on 1 April 2014.

8.14. The Authority will direct revised PCFM Variable Values(s) for WWE by no later than 30 November, or as soon as reasonably practicable thereafter, in each Regulatory Year t-1 in accordance with paragraph 6I.43 – NGET & SPTL 6I.42 - SHE of Special Condition 6I. Notice of the proposed value(s) will be given at least 14 days before the date of the direction. Revised PCFM Variable Values for WWE will

generally be directed together with all of the other PCFM Variable Value revisions required for a particular Annual Iteration Process. Further information on the direction of revised PCFM Variable Values is given in Chapters 1 and 2.

## **Allowed Expenditure – Incremental Wider Works**

8.15. The process to direct allowances for Incremental Wider Works (NGET only) is set out in Chapter 9.

## **Processing of PCFM Variable Values for WWE under the Annual Iteration Process**

8.16. Under the Annual Iteration Process, the licensee's updated allowed expenditure for Strategic Wider Works is allocated to the fast and slow money<sup>45</sup> totals held in the PCFM, in accordance with the Totex Capitalisation Rate (per cent) specified in the RIIO-T1 Final Proposals and at Appendix 1 of Special Condition 6C.

8.17. The allocations are used to update all relevant values relating to Totex expenditure for the PCFM Year concerned, notably the licensee's RAV balance. This facilitates the determination of base revenue factors for relevant PCFM Years through updated calculations for:

- fast money components;
- amounts of return and depreciation on the licensee's RAV balance;
- tax allowances;
- notional equity issuance costs and
- Totex Incentive Mechanism Adjustments.

## **Effects of using revised PCFM Variable Values**

8.18. As referred to in paragraph 8.11, the Authority may, for a particular Annual Iteration Process, need to direct the use of a revised PCFM Variable Value for one or more PCFM Years preceding the one which equates to Relevant Year t.

8.19. In such a case, any incremental changes to base revenue figures for those earlier PCFM Years calculated under the latest Annual Iteration Process will, subject to a Time Value of Money adjustment, be brought forward and reflected in the calculation of the term MOD to be directed for Relevant Year t. For the avoidance of doubt, such a revision will not have any retrospective effect on a previously directed value of the term MOD.

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<sup>45</sup> See Glossary



## 9. Network development policy and wider works allowed expenditure - financial adjustment methodology (NGET only)

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9.1. The term 'Wider Works Outputs' refers to reinforcement of the national electricity transmission system to reinforce or extend it to meet existing and future customer requirements. The reinforcement will provide additional transmission capacity and/or boundary transfer capability. The development of schemes must be in accordance with the planning criteria set out in the National Electricity Transmission System Security and Quality of Supply Standards.

9.2. For NGET Special Condition 6J provides a volume driver of allowances at specified boundary points to deliver incremental wider works outputs where those outputs and funding have not been provided elsewhere (ie not covered by Special Condition 6I). The baseline allowed expenditure and baseline profile for changes in transfer capability for incremental wider works is given in Special Condition 6J part A, tables 1a and 1b respectively.

9.3. Special Condition 6J sets out the basis of calculating adjustments to Totex allowances arising from the delivery of incremental wider works in accordance with the licensee's Network Development Policy, ie to adjust allowances where the actual delivered amount of incremental wider works are on a boundary is different to the amount forecast in the baseline. In every year of iteration of the financial model (denoted year t-1), it seeks to specify the total variance in allowance for each Relevant Year up to the latest reported (year t-2). The entire vector of allowances is potentially rewritten, changes being made retrospectively to allowances in the years of performance, not the year of reporting.

### **Temporal convention**

9.4. For the purposes of Special Condition 6J, and this Chapter, "Relevant Year t" means the Relevant Year in which a value for the term MOD, calculated through a particular Annual Iteration Process, is used in the formula for the licensee's base transmission revenue.

9.5. Required adjustments are applied through the Annual Iteration Process for the ET1 Price Control Financial Model (PCFM) using revised PCFM Variable Values determined under Special Condition 6J.

### **Allowed expenditure for Incremental Wider Works**

9.6. The PCFM contains the baseline allowed expenditure referred to in paragraph 9.2 which were used in the calculation of opening base revenue allowances. These figures can be supplanted for calculations under the Annual Iteration Process by revised PCFM Variable Value IWW.

9.7. The IWW term is determined in accordance with the provisions of Special Condition 6J. Values for this term are determined in 2009-10 prices, consistent with the price base used in the PCFM.

9.8. Under the Annual Iteration Process, the updated allowed expenditure values are used in the calculation of new Base Revenue figures for affected Relevant Years. These in turn feed through to the calculation of the term MOD for Relevant Year t.

9.9. The primary PCFM Variable Value revisions for IWW in respect of each Annual Iteration Process for NGET relate to the PCFM Year which equates to Relevant Year t-2. Revised IWW values will be calculated in accordance with Part D of Special Condition 6J.

9.10. Special Condition 6J sets out the stipulations and procedures governing the proposal and determination of the licensee's allowed expenditure levels in respect of incremental wider works. In summary these are:

- The licensee shall submit to the Authority on or before 1 April 2013 (or such later date as the Authority may direct) a Network Development Policy ("the policy").
- The policy shall include an explanation of the Network Development Policy objectives; an explanation of the licensee's proposed methodology and decision making processes; an explanation of other factors the licensee may also take into account to prioritise IWW outputs; and a description of how the licensee will work with interested stakeholders
- Unless the Authority directs otherwise within two months of the date of submission of the statement by the licensee, the licensee must use reasonable endeavours to apply the methodology set out in that statement.
- Before revising the methodology set out in the statement, the licensee must submit a copy of the proposed revisions to the Authority.
- Unless the Authority otherwise directs within one month after receiving the proposed revisions under, the licensee must use reasonable endeavours to apply the methodology in accordance with the proposed revisions.

9.11. Reference should be made to Special Condition 6J for the full and definitive procedures and requirements.

### **Determination and direction of revised IWW values**

9.12. In order to facilitate the Annual Iteration Process that is required by Special Condition 5B for NGET:

- (i). The licensee will report on relevant boundary transfer capability after 31 March 2013, verify the change transfer capability as the result of a IWW output that the licensee has delivered and on its actual expenditure incurred in accordance with standard condition B15 Regulatory Instructions and Guidance.

- (ii). The Authority will ascertain the total amount of allowed expenditure for the licensee, (in 2009-10 prices) for IWW outputs delivered for each Relevant Year of the Price Control Period (see example below); and
- (iii). The Authority shall, by 30 November or as soon as reasonably practical thereafter, in each Relevant Year t-1 issue a direction, in accordance with the provisions of Part F of the condition, specifying the revised IWW values for each Relevant Year up to t-2.
- (iv). The Authority may also revise the IWW value for a relevant year or years, notwithstanding that the IWW values concerned might have been previously revised, provided that:
  - (a) the revision is necessary to reflect a review by the Authority of the values of the term IWW pertaining to the earlier relevant years or to correct errors in relation to those values; and
  - (b) the revised IWW value for the earlier relevant years is calculated in accordance with the formula set out in Part D; and
  - (c) the revised IWW value for the earlier Relevant Years is specified in a direction issued in accordance with the provisions of Part F of the condition.

*Indicative Example*

During the Price Control Period, the licensee reports that it has achieved boundary capability of 10MW in excess of the target value of 100MW. This delivery takes place in 2018-19. This is reported in 2019-20 and any direction will impact MOD for 2020-21. Where the Authority is satisfied that the change is the result of an IWW Output delivered by the licensee the Authority will calculate the additional expenditure allowance for the incremental output delivered of 10MW (excess capability x UCA x RPE x weighting). This calculation will be performed in 2009-10 prices.

The Authority gives notice to interested parties that it intends to make a direction and then considers any representations in response to the Notice that are duly made and not withdrawn.

The Authority determines that opening IWW values should be revised to reflect the value of the 10MW incremental output delivery in year t-2 phased in accordance with table 3 of ETC 6J, part D. That is, allowances are amended for the years prior to that in which actual additional capacity is reported in the profile 2015-16 16 per cent; 2016-17 26 per cent; 2017-18 37 per cent and 2018-19 21 per cent.

## 10. Generation connection volume driver allowed expenditure - financial adjustment methodology

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10.1. Special Condition 6F (Baseline generation connection outputs and generation connections volume driver) contains a mechanism for adjusting the licensee's allowed expenditure in respect of transmission business requirements where outputs are delivered (or in the case of SHETPLC are forecast to be delivered) in excess of the baseline forecast level.

10.2. The allowed expenditure is for transmission infrastructure works to provide a connection to one or more new generating stations or interconnectors.

10.3. Special Condition 6F specifies the mechanism by which adjustments to allowed expenditure levels can be determined by the Authority. They also provide for revisions to associated PCFM Variable Values (necessary to give effect to allowed expenditure adjustments) to be determined under the methodologies set out in this Chapter. In addition, they set out the procedure for revised PCFM Variable Values to be directed for the purposes of the Annual Iteration Process for the ET1 Price Control Financial Model.

### **Temporal convention**

10.4. For the purposes of Special Condition 6F, and this Chapter, "Relevant Year t" means the Relevant Year in which a value for the term MOD, calculated through a particular Annual Iteration Process, is used in the formula for the licensee's base transmission revenue.

10.5. Required adjustments are applied through the Annual Iteration Process for the ET1 Price Control Financial Model (PCFM) using revised PCFM Variable Values determined under Special Condition 6F. These conditions include some licensee-specific determination provisions.

### **Generation connection – local enabling works**

10.6. The PCFM contains the forecast expenditure amounts referred to in paragraph 10.3 which were used in the calculation of opening Base Revenue allowances. These figures can be supplanted for calculations under the Annual Iteration Process by revised PCFM Variable Value GCE.

10.7. The GCE term is determined in accordance with the provisions of Special Condition 6F. Values for this term are determined in 2009-10 prices, consistent with the price base used in the PCFM.

10.8. Under the Annual Iteration Process, the updated allowed expenditure values are used in the calculation of new base revenue figures for affected Relevant Years. These in turn feed through to the calculation of the term MOD for Relevant Year t.

10.9. The primary PCFM Variable Value revisions for GCE in respect of each Annual Iteration Process for SPTL relate to the PCFM Year which equates to regulatory year t-2. For NGET the revisions relate to up to four years prior to Relevant year t-2. For SHETPLC the revisions relate to up to four years before and after the Relevant Year.

10.10. Special Condition 6F sets out the stipulations and procedures governing the proposal and determination of the licensee's allowed expenditure levels in respect of generation connection. In summary these are:

- The licensee will report annually on relevant generation connections and relevant installed asset rating completed (not NGET) and commissioned after 31 March 2013 and on its actual expenditure incurred in accordance with standard condition B15 Regulatory Instructions and Guidance
- Revised GCE values will be calculated in accordance with Part B of Special Condition 6F.
- For SHETPLC the GCE values will also be updated for forecast delivery with an ex post adjustment once outputs are delivered (if necessary because of differences in the amount of the output delivered or in the case of atypical connections because of differences in the actual costs compared to the forecast costs).
- For NGET there is a separate UCA for the overhead line component.
- The Authority will, by 30 November in each Relevant Year t-1 issue a direction, in accordance with the provisions of Part C of this condition (Part F – SHETPLC), specifying the revised GCE values for Relevant Year t-2.
- A direction issued by the Authority under paragraph ~~6F.16~~12 (of Special Condition 6F) is of no effect unless the Authority has first:
  - (a) given notice to interested parties that it proposes to issue a direction under paragraph (16 – SPTL, 31 – SHETPLC, & 11 – NGET):
    - (i) Specifying the date on which it proposes that the direction should take effect;
    - (ii) stating, where appropriate, that any GCE values have been determined in accordance with Part B of this condition; and
    - (iii) specifying the time (which must not be less than a period of 14 days) within which representations concerning the proposed direction may be made; and
  - (b) considered any representations in response to the notice that are duly made and not withdrawn.
- The Authority may also revise the GCE value for a Relevant Year or Years earlier than Relevant Year t-2 ('earlier Relevant Years'), notwithstanding that the GCE values concerned might have been previously revised, provided that:
  - (a) the revision is necessary to reflect a review by the Authority of the values of the licence terms in Part B of the condition pertaining to the earlier Relevant Years or to correct errors in relation to those values;

(b) the revised GCE value for the earlier Relevant Years is calculated in accordance with the formula set out in Part B of condition 6F; and

(c) the revised GCE value for the earlier Relevant Years is specified in a direction issued in accordance with the provisions of Part D of the condition.

10.11. If the Authority does not make a direction in relation to revised GCE values by 30 November, or as soon as reasonably practicable thereafter, then no revised GCE values will be used in the Annual Iteration Process that is required by Special Condition 5B to be undertaken by the Authority by 30 November in that same Relevant Year t-1. In those circumstances, the Authority will take full account of the position when determining and directing any revised GCE values in respect of the next Annual Iteration Process.

10.12. Reference should be made to Special Condition 6F for the full and definitive procedures and requirements.

### **Determination and direction of revised GCE values**

#### *GCE values*

10.13. In order to facilitate the Annual Iteration Process that is required by Special Condition 5B for NGET and SPTL:

- (i). The licensee will report on relevant generation connections and relevant installed asset rating completed (not NGET) and commissioned after 31 March 2013 and on its actual expenditure incurred in accordance with standard condition B15 Regulatory Instructions and Guidance.
- (ii). The Authority will ascertain the total amount of additional allowed expenditure for the licensee, (in 2009-10 prices) for additional outputs delivered for each Relevant Year of the Price Control Period (see example below); and
- (iii). The Authority will, by 30 November in each Relevant Year t-1 issue a direction, in accordance with the provisions of Part C of 6F (Part F of 6F for SHET), specifying the revised GCE values for Relevant Year t-2.

#### *Indicative Example*

During the Price Control Period, the licensee reports that it has achieved outputs of 10MW in excess of the target value of 100MW. Where the Authority is satisfied that this is the case it calculates the additional expenditure allowance for the incremental output delivered of 10MW (excess output x UCA x RPE). This calculation will be performed in 2009-10 prices.

The Authority gives notice to interested parties that it intends to make a direction and then considers any representations in response to the notice that are duly made and not withdrawn.

The Authority determines that opening GCE value of zero should be revised to reflect the value of the 10MW incremental output delivery in year t-2. That is, allowances are amended for the year in which actual additional capacity is reported.

10.14. For SHETPLC the process differs as allowances are made in response to the forecast of additional generation connection capacity being made:

(i). The licensee will forecast each year, for five years in advance, the level of relevant generation connections forecast to be installed and commissioned after 31 March 2013 and on its actual expenditure incurred in accordance with standard condition B15 Regulatory Instructions and Guidance.

(ii). The Authority will ascertain the total amount of additional allowed expenditure for the licensee, in 2009-10 prices) for additional outputs delivered for each Relevant Year of the Price Control Period; and

(iii). The Authority will, by 30 November in each Relevant Year (following commencement of the Price Control Period) issue a direction, in accordance with the provisions of Part C of 6F, specifying the revised GCE values; and

(iv). Once actual delivered outputs are known the Authority will recalculate allowances and correct allowances for prior years as necessary (either over or under delivery) by directing revised prior years GCE values.

## 11. Enhancements to pre-existing infrastructure allowed expenditure - financial adjustment methodology

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11.1. Special Condition 6G (Mitigating the Impact of Pre-existing Infrastructure in Designated Areas) contains a mechanism for adjusting the licensee's allowed expenditure to enable the visual impact of certain existing transmission infrastructure assets to be reduced.

11.2. 'Mitigating the impact of Pre-existing Infrastructure' means a reduction in the visual impact of existing transmission assets, in National Parks, Areas of Outstanding Natural Beauty and National Scenic Areas ("designated areas") such that meet the licensee's criteria set out in its Mitigating the impact of Pre-existing Infrastructure Policy.

11.3. Special Condition 6G specifies the mechanism by which adjustments to allowed expenditure levels can be determined by the Authority. They also provide for revisions to associated PCFM Variable Values (necessary to give effect to allowed expenditure adjustments) to be determined under the methodologies set out in this Chapter. In addition, they set out the procedure for revised PCFM Variable Values to be directed for the purposes of the Annual Iteration Process for the ET1 Price Control Financial Model.

### **Temporal convention**

11.4. For the purposes of Special Condition 6G, and this Chapter, "Relevant Year  $t$ " means the Relevant Year in which a value for the term MOD, calculated through a particular Annual Iteration Process, is used in the formula for the licensee's base transmission revenue.

11.5. Required adjustments are applied through the Annual Iteration Process for the ET1 Price Control Financial Model (PCFM) using revised PCFM Variable Values determined under Special Condition 6G.

### **Mitigating the impact of Pre-existing Infrastructure in Designated Areas**

11.6. The PCFM contains the forecast expenditure amounts (initially all zero) which were used in the calculation of opening base revenue allowances. These figures can be supplanted for calculations under the Annual Iteration Process by revised PCFM Variable Value EPIE.

11.7. The EPIE term is determined in accordance with the provisions of Special Condition 6G. Values for this term are determined in 2009-10 prices, consistent with the price base used in the PCFM.



11.8. Under the Annual Iteration Process, the updated allowed expenditure values are used in the calculation of new Base Revenue figures for affected Relevant Years. These in turn feed through to the calculation of the term MOD for Relevant Year t.

11.9. The primary PCFM Variable Value revisions for EPIE in respect of each Annual Iteration Process relate to Relevant Year t onwards.

11.10. Special Condition 6G sets out the stipulations and procedures governing the proposal and determination of the licensee's allowed expenditure levels in respect of Mitigating the impact of pre-existing infrastructure. In summary these are:

- Before making a request the Authority to specify EPI Outputs in Table 1 the licensee shall submit to the Authority an Mitigating Pre-existing Infrastructure Policy ("the policy").
- The licensee must set out in its policy the objectives and methodology for identifying potential EPI Outputs on its transmission system.
- The licensee may request that the Authority approve EPI Outputs during the Price Control Period where these proposed EPI Outputs are compliant with the licensee's Mitigating the impact of Pre-existing Infrastructure Policy which, pursuant to the provisions of Part C of the condition, has been approved by the Authority.
- The Authority may specify EPI Outputs in Table 1 of Special Condition 6G pursuant to the provisions of Part D of the condition.
- Where the licensee has not delivered or has only partially delivered an EPI Output set out in Table 1, the Authority will, in calculating values for EPIE, adjust allowed expenditure in relation to the EPI Output to ensure only efficient costs are recovered.
- The Authority may direct modifications to Table 1 in Part B and Table 2 in this Part D in order to include or modify details, including the amount of allowed expenditure, of EPI Outputs through the provisions of Part E.
- A direction issued by the Authority is of no effect unless the Authority has first:
  - (a) given Notice to interested parties that it proposes to issue a direction:
    - (i) specifying the date on which it proposes that the direction should take effect;
    - (ii) stating, where appropriate, that any output and/or allowed expenditure adjustments that have been determined in accordance with Part B and Part D of this condition;
    - (iii) provide an update on the remaining allowance available during RIIO-T1 to fund EPI outputs; and
    - (iv) specifying the time (which must not be less than a period of 14 days) within which representations concerning the proposed direction may be made; and
  - (b) considered any representations in response to the notice that are duly made and not withdrawn

11.11. If the Authority does not make a direction in relation to revised EPIE values by 30 November, or as soon as reasonably practicable thereafter, then no revised EPIE values will be used in the Annual Iteration Process that is required by Special Condition 5B to be undertaken by the Authority by 30 November in that same Relevant Year t-1. In those circumstances, the Authority will take full account of the position when determining and directing any revised EPIE values in respect of the next Annual Iteration Process.

11.12. Reference should be made to Special Condition 6G for the full and definitive procedures and requirements.

### **Determination and direction of revised EPIE values**

11.13. In order to facilitate the Annual Iteration Process that is required by Special Condition 5B:

- (i). The licensee will report annually on progress in delivering the EPI Outputs and its actual expenditure incurred to the Authority in accordance with standard condition B15 Regulatory Instructions and Guidance.
- (ii). The Authority will ascertain the total amount of additional allowed expenditure for the licensee, (in 2009-10 prices) in each Relevant Year of the Price Control Period (see example below).
- (iii). The Authority will, by 30 November in each Relevant Year t-1 issue a direction, in accordance with the provisions of Part C of the condition, specifying the revised EPIE values for Relevant Year t.
- (iv). Where the Authority directs any revised EPIE values relating to Relevant Years which are earlier than Relevant Year t, the effect of using those revised EPIE values in the Annual Iteration Process for the ET1 Price Control Financial Model will, subject to a Time Value of Money adjustment, be reflected in the calculation of the term MOD for Relevant Year t and, for the avoidance of doubt, no previously directed value of the term MOD will be retrospectively affected.

#### *Indicative Example*

During the Price Control Period, the licensee identifies measures to mitigate the visual impact of some pre-existing infrastructure.

The licensee requests that the Authority approve this EPI output which is compliant with the licensee's Mitigating to Pre-existing Infrastructure Policy.

The Authority satisfies itself that:

the proposed output is compliant with the agreed policy and;

that the proposed costs of delivery are considered efficient and;

that there is sufficient funding available under the expenditure cap set out in Final Proposals.

The Authority gives notice to interested parties that it intends to make a direction and then considers any representations in response to the notice that are duly made and not withdrawn.

The Authority directs, prior to 30 November in Relevant Year t-1, revised additional expenditure allowances stated in 2009-10 prices.

## 12. Innovation roll out mechanism allowed expenditure – financial adjustment methodology

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### **Innovation roll out mechanism**

12.1. The purpose of this Chapter of the price control financial handbook is to set out the methodology to determine the values relating to Innovation Roll-out allowed expenditure ('IRM' values) and the Relevant Year to which those revisions relate.

12.2. The provisions for determining revised IRM values are contained in Special Condition 6E (The Innovation Roll-out Mechanism). All IRM values are stated in 2009-10 prices.

12.3. The application of the methodologies set out in this Chapter of the handbook will mean that as a consequence of the Annual Iteration Process, the value of the term MOD as calculated for Relevant Year  $t$  will result in an appropriate adjustment of the base revenue of the licensee so that it is the same as it would have been had the forecast values used in the model been the same as the actual out-turn values.

12.4. The opening base revenue allowances ('PU' values) for each licensee, set down in the table at Appendix 1 to Special Condition 3A (Restriction of Transmission Network Revenue) reflect allowed expenditure figures for forecast levels of innovation expenditure (and will be zero at the outset).

12.5. The allowed expenditure figures constitute the 'IRM' values contained in the Variable Values Table of the RIIO-T1 Price Control Financial Model ('PCFM') as at 1 April 2013, the first day of RIIO-T1.

12.6. It may be necessary to revise IRM values during the course of RIIO-T1 so that they represent allowed expenditure levels driven by additional innovation funding. This ensures that the value of the term  $MOD_t$  which is calculated through the Annual Iteration Process for the PCFM appropriately reflects updated allowed expenditure on innovation as a component of Totex in:

- (i). fast and slow money allowed revenue calculations; and
- (ii). allowed revenue adjustments under the Totex Incentive Mechanism (see Chapter 6).

### **Temporal convention**

12.7. For the purposes of Special Condition 6E, and this Chapter, "Relevant Year  $t$ " means the Relevant Year in which a value for the term MOD, calculated through a particular Annual Iteration Process, is used in the formula for the licensee's base transmission revenue.

Special Condition

**Determination and direction of revised IRM values**

12.8. Part A of Special Condition 6E (The Innovation Roll-out Mechanism) specifies the features that qualify as an innovation a roll-out for additional funding.

12.9. Part B of Special Condition 6E (The Innovation Roll-out Mechanism) specifies the licensees' ability to propose a relevant adjustment to the IRM value.

12.10. Part C of Special Condition 6E (The Innovation Roll-out Mechanism) specifies two periods when these adjustments can be proposed:

- (a) the first application window opens on 1 May 2015 and closes on 31 May 2015; and
- (b) the second application window opens on 1 May 2018 and closes on 31 May 2018.

12.11. For the first application window Ofgem will determine revised IRM values for all Relevant Years (if necessary) between 31 July 2015 and 30 November 2015 - the deadline for directing revised IRM values to be used in the Annual Iteration Process which will take place by 30 November 2015 (see Chapter 2).

12.12. For the second application window Ofgem will determine revised IRM values for all Relevant Years (if necessary) between 31 July 2018 and 30 November 2018 - the deadline for directing revised IRM values to be used in the Annual Iteration Process which will take place by 30 November 2018 (see Chapter 2).

12.13. The Authority's direction of revised IRM values will be made by no later than 30 November in each Relevant Year t-1 and will be made in accordance with Part E of Special Condition 6E.

**Processing of IRM values under the Annual Iteration Process**

12.14. Under the Annual Iteration Process, IRM values, as revised, representing allowed innovation expenditure are allocated to:

- fast and slow money<sup>46</sup> totals in accordance with the Totex Capitalisation Rate ( per cent) specified in Final Proposals, Special Condition 6C; and
- the tax pools associated with innovation expenditure in accordance with the licensee specific tax allocation profile, within the PCFM.

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<sup>46</sup> See Glossary

12.15. IRM values, as revised, for all Relevant Years up to and including Relevant Year t are then used with other PCFM variable values under the Annual Iteration Process:

- (i). in calculating the value of the term  $MOD_t$  for Relevant Year t including:
  - fast money components,
  - amounts of return and depreciation on the licensee's RAV balance,
  - tax allowance effects,
  - Totex Incentive Mechanism adjustments, and
- (ii). to update Totex related balances held within the PCFM including the licensee's RAV balance.

12.16. Under the Annual Iteration Process described in Chapter 2 the effect of revised IRM values directed for Relevant Years earlier than Relevant Year t flow through to the determination of the value of  $MOD_t$  and will have no retrospective effect on previously directed values of MOD. Special Condition

12.17. IRM values held in the PCFM for Relevant Years later than year t in relation to a particular Annual Iteration Process do not feed into the calculation of the term  $MOD_t$  and remain at the forecast levels referred to in paragraph 12.4 pending any subsequent revision. Accordingly, all calculated values in the PCFM for Relevant Years later than Relevant Year t have indicative status only.

## 13. Planning requirements volume driver (NGET only)

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13.1. Where new projects which will be remunerated by other mechanisms are impacted by planning decisions to underground cables the additional costs of laying transmission wires directly in the ground instead of being strung overhead on pylons can be considerable.

13.2. Special Condition 6K provides a volume driver for allowances to fund the cost of meeting planning requirements through underground cabling and DNO mitigation measures above a funded baseline and where that funding has not been provided elsewhere. The baseline forecast expenditure is given in Special Condition 6K part A Table 1.

13.3. Special Condition 6K sets out the basis of calculating adjustments to Totex allowances arising from planning requirements to include underground cabling in new transmission routes and DNO measures ie to adjust allowances where the level of mitigation requirements for planning consent are different to the baseline. In every year of iteration of the PCFM (denoted year  $t-1$ ), it seeks to specify the total variance in allowance for each year up to the latest reported (year  $t-2$ ). The entire vector of allowances is potentially rewritten (subject to Authority determination), changes being made ex ante to future allowances.

### **Temporal convention**

13.4. For the purposes of Special Condition 6K, and this Chapter, "Relevant Year  $t$ " means the Relevant Year in which a value for the term MOD, calculated through a particular Annual Iteration Process, is used in the formula for the licensee's base transmission revenue.

13.5. Required adjustments are applied through the Annual Iteration Process for the ET1 Price Control Financial Model (PCFM) using revised PCFM Variable Values determined under Special Condition 6K.

### **Meeting planning requirements for new infrastructure**

13.6. The 'DUV value' relating to a particular Relevant year  $t$ , represents the total amount of allowed expenditure (in 2009-10 prices) for underground cabling works and mitigation measures on DNO networks to acquire the planning permissions for new transmission infrastructure for that Relevant Year as determined in accordance with this condition.

13.7. The PCFM contains the baseline expenditure amounts referred to in paragraph 13.2 which were used in the calculation of opening Base Revenue allowances. These figures can be supplanted for calculations under the Annual Iteration Process by revised PCFM Variable Value DUV.

13.8. The DUV term is determined in accordance with the provisions of Special Condition 6K. Values for this term are determined in 2009-10 prices, consistent with the price base used in the PCFM.

13.9. Under the Annual Iteration Process, the updated allowed expenditure values are used in the calculation of new base revenue figures for affected Relevant Years. These in turn feed through to the calculation of the term MOD for Relevant Year t.

13.10. The primary PCFM Variable Value revisions for DUV in respect of each Annual Iteration Process relate to the PCFM Year which equates to Relevant Years t-2 to t-5 as appropriate. Revised DUV values will be calculated in accordance with Part C of Special Condition 6K.

13.11. Special Condition 6K sets out the procedures governing the proposal and determination of the licensee's allowed expenditure levels in respect of demand related infrastructure and reference should be made to this condition for the full and definitive procedures and requirements.

#### **Determination and direction of revised DUV values**

13.12. In order to facilitate the Annual Iteration Process that is required by Special Condition 5B:

- (i). The licensee must notify the Authority of the amount, if any, of Underground Cabling or DNO Mitigation works the licensee is required to deliver as part of a new transmission infrastructure project to meet the conditions or requirements of a Development Consent Order (DCO) granted by the Secretary of State.
- (ii). The licensee must use best endeavours to promote a design and route of new electricity transmission infrastructure in DCO applications that ensure long term value for money for consumers.
- (iii). The licensee must report annually to the Authority on the amount and type of Underground Cabling or DNO Mitigation works delivered along with information on actual expenditure incurred under the regulatory instructions and guidance issued in accordance with standard condition B15 Regulatory Instructions and Guidance.
- (iv). The Authority will ascertain the total amount of allowed expenditure for the licensee, (in 2009-10 prices) for each Relevant Year of the Price Control Period (see example below); and
- (v). The Authority will, by 30 November or as soon as reasonably practical thereafter, in each Relevant Year t-1 issue a direction, in accordance with the provisions of Part E of Special Condition 6K, specifying the revised DUV values for Relevant Year t.

13.13. A direction issued by the Authority, is of no effect unless the Authority has first :



- given notice to the licensee of all of the values that it proposes to issue as a direction under paragraph 13.12.

specified the date on which it proposes that the direction should take effect;

a. stating that any revised DUV values have been determined in accordance with Part C of this condition; and

b. specifying the time (which must not be less than a period of 28 days) within which any representations concerning the determination of any revised DUV values may be made.

- considered any representations in response to the Notice that are duly made and not withdrawn.

13.14. The Authority may also revise the DUV value for a Relevant Year or Years earlier than Relevant Years ('earlier Relevant Years'), notwithstanding that the DUV values concerned might have been previously revised, subject to certain provisions (see condition for detail).

#### *Indicative Example*

During the Price Control Period, the licensee notifies the Authority of Underground Cabling works the licensee is required to deliver as part of a new transmission infrastructure project to meet the conditions or requirements of a DCO granted by the Secretary of State. The requirement is for 10km of type Y.

The Authority calculates the additional expenditure allowance for the incremental cost (length undergrounded x UCA for type Y x RPE<sup>47</sup> x weighting factor for year directed). This calculation will be performed in 2009-10 prices.

The Authority gives notice to interested parties that it intends to make a direction and then considers any representations in response to the Notice that are duly made and not withdrawn.

The Authority determines that opening DUV values should be revised to reflect the value of the 10km undergrounding phased in accordance with table 3 of Special Condition 6K, Part C. That is, allowances are amended in the proportions: first year 10 per cent; second year 50 per cent; third and fourth years 20 per cent.

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<sup>47</sup> UCAs and RPEs are set out in ETC6K Part C tables 2 & 4

## 14. Demand related infrastructure volume driver allowed expenditure – financial adjustment methodology

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14.1. The term 'Demand Related Infrastructure' means the new transmission infrastructure works which are needed to provide demand connections and to increase the offtake capacity at grid exit points.

14.2. Special Condition 6L provides a volume driver for allowances to deliver additional Demand-Related Infrastructure outputs above a funded baseline and where that funding has not been provided elsewhere. The baseline forecast expenditure is given in Special Condition 6L part B Table 1.

14.3. Special Condition 6L sets out the basis of calculating adjustments to Totex allowances arising from Demand Related Infrastructure works that vary to those in the baseline. In every year of iteration of the financial model (denoted year  $t-1$ ), it seeks to specify the total variance in allowance for each year up to the latest reported year ( $t-2$ ). Changes to allowances are made retrospectively to the year of performance, not the year of reporting (note that while the condition will define inputs which affect MOD in year  $t$ , only variances up to and including year  $t-2$  will be specified).

### **Temporal convention**

14.4. For the purposes of Special Condition 6L, and this Chapter, "Relevant Year  $t$ " means the Relevant Year in which a value for the term MOD, calculated through a particular Annual Iteration Process, is used in the formula for the licensee's base transmission revenue.

14.5. Required adjustments are applied through the Annual Iteration Process for the ET1 Price Control Financial Model (PCFM) using revised PCFM Variable Values determined under Special Condition 6L.

### **Demand Related Infrastructure volume driver allowed expenditure**

14.6. The PCFM contains the forecast expenditure amounts referred to in paragraph 14.2 which were used in the calculation of opening base revenue allowances. These figures can be supplanted for calculations under the Annual Iteration Process by revised PCFM Variable Values DRI.

14.7. The DIV term is determined in accordance with the provisions of Special Condition 6L. Values for this term are determined in 2009-10 prices, consistent with the price base used in the PCFM.

14.8. Under the Annual Iteration Process, the updated allowed expenditure values are used in the calculation of new Base Revenue figures for affected Relevant Years. These in turn feed through to the calculation of the term MOD for Relevant Year t.

14.9. The primary PCFM Variable Value revisions for DIV in respect of each Annual Iteration Process in general relate to the PCFM Year which equates to regulatory years t-2, t-3 and t-4. Revised DIV values will be calculated in accordance with Part C of Special Condition 6L. However for changes to outputs in the first year of RIIO only allowances in that year (ie t-2) will be directed and for changes to outputs in year two of RIIO only allowances in years t-2 and t-3 will be directed.

### **Determination and direction of revised DIV values**

14.10. In order to facilitate the Annual Iteration Process that is required by Special Condition 5B:

- (i). The licensee must report annually on demand related infrastructure works completed and commissioned after 31 March 2013 and on its actual expenditure incurred in accordance with standard condition B15 Regulatory Instructions and Guidance.
- (ii). The Authority will ascertain the total amount of allowed expenditure for the licensee, (in 2009-10 prices) for outputs delivered for each Relevant Year of the Price Control Period (see example below); and
- (iii). The Authority shall, by 30 November or as soon as reasonably practicable thereafter, in each Relevant Year t-1 issue a direction, in accordance with the provisions of Part C of Special Condition 6L, specifying the revised DRI values for Relevant Year t-2 and Relevant Years t-3 and t-4.
- (iv). The Authority may also revise the DIV value for a Relevant Year or years earlier than Relevant Year t-1 ('earlier Relevant years'), notwithstanding that the DIV values concerned might have been previously revised, provided that:
  - a. the revision is necessary to reflect a review by the Authority of the values of the term  $DIV_t$  pertaining to the earlier Relevant Years or to correct errors in relation to those values; and
  - b. the revised DIV value for the earlier Relevant Years is calculated in accordance with the formula set out in Part B of the condition; and
  - c. the revised DIV value for the earlier Relevant Years is specified in a direction issued in accordance with the provisions of Part E of the condition.

14.11. Special Condition 6L sets out the procedures governing the proposal and determination of the licensee's allowed expenditure levels in respect of demand related infrastructure and reference should be made to this condition for the full and definitive procedures and requirements.

*Indicative Example*

During the Price Control Period in 2017-18, the licensee reports that it has delivered (in 2016-17) an additional transformer at an existing grid exit point that has undergone second stage electrical commissioning on the licensee's transmission system. This followed a relevant commercial agreement with a demand customer for a direct grid connection as defined in the CUSC.

Where the Authority is satisfied that this is the case it calculates the additional expenditure allowance based on the km delivered and/ or the number of transformers commissioned in excess of the baseline. The value for each year is calculated based on (delivered volume of transformers – baseline volume of transformers x UCA x RPE<sup>48</sup>) + (km of line delivered on the project x UCA x RPE). This calculation will be performed in 2009-10 prices

The Authority gives notice to interested parties that it intends to make a direction and then considers any representations in response to the notice that are duly made and not withdrawn.

The Authority determines that opening DIV values should be revised to reflect the value of the output delivery in year t-2 phased in accordance with table 3 of Special Condition 6L, part C. That is, allowances are amended for the years prior to that in which actual additional capacity is reported in the profile 2014-15 11 per cent; 2015-16 44 per cent and 2016-17 45 per cent.

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<sup>48</sup> The RPE factors and UCAs are given in tables 2 and 4 of Part C of ETC 123.

## 15. Legacy price control adjustments - financial methodologies

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### Introduction

15.1. The purpose of this Chapter of the ET1 Price Control Financial Handbook is to set out the methodologies that are to be used to determine values for each component term ('component term values') in the formulae set out in:

- Part A of Special Condition 6A (Legacy price control adjustments – Transmission Owner); and
- Part A of Special Condition 7A (Legacy price control adjustments - System Operator) for National Grid Electricity Transmission plc (NGET).

15.2. The methodologies are set out in Parts 1 to 4 below.

### Overview

15.3. The formulae referred to in paragraph 15.1 are used to determine revised values for PCFM Variable Values, that relate to:

- a) legacy price control revenue allowance adjustments (LAR and SOLAR values); and
- b) legacy price control adjustments to RAV<sup>49</sup> balance additions (LRAV and SOLRAV values),

for Relevant Year 2013-14.

15.4. Legacy price control adjustments are necessary, to take account of outturn levels of:

- activities carried out by the licensee;
- incentivised performance by the licensee; and/or
- expenditure incurred by the licensee,

in specified legacy price control adjustment categories during Relevant Years prior to 1 April 2013 (the 'legacy period'). These 'legacy outturn levels' will either not have been available, or not have been confirmed, when the licensee's opening base revenues were set.

15.5. The PCFM Variable Values LAR, SOLAR, LRAV and SOLRAV represent the net incremental changes (which may be positive or negative) to revenue allowance and RAV addition amounts to reflect legacy outturn levels. It should be noted, however, that revisions to LAR, SOLAR, LRAV and SOLRAV values will also have ancillary effects on other calculations under the Annual Iteration Process which feed into recalculated base revenue figures.

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<sup>49</sup> See Glossary

15.6. Each component term value (see Table 15.1) in the formulae for LAR, SOLAR, LRAV and SOLRAV represents the incremental change for a particular legacy price control adjustment category. At the outset of the Price Control Period on 1 April 2013, all LAR, SOLAR, LRAV and SOLRAV values will be zero, because provisional or forecast legacy outturn levels will have been used in modelling the licensee's opening base revenue allowances.

15.7. The use of revised LAR, SOLAR, LRAV and SOLRAV values for Relevant Year 2013-14 in the Annual Iteration Process for the ET1 Price Control Financial Model (PCFM) will mean that values of the terms  $MOD_t$  and  $SOMOD_t$  will appropriately reflect legacy outturn levels.

15.8. The aggregate revenue allowance adjustments embodied in the LAR and SOLAR terms will be spread evenly across base revenue calculations for the eight years of the Price Control Period. However, there are no provisions to revise LAR, SOLAR, LRAV or SOLRAV values for Relevant Years other than Relevant Year 2013-14 - all necessary calculations and effects are achieved under the Annual Iteration Process, with appropriate Time Value of Money adjustments.

15.9. For the avoidance of doubt, legacy price control adjustments are not subject to the Totex Incentive Mechanism.

15.10. A determination of component term values will be carried out during each Relevant Year of the Price Control Period, in time to determine any necessary revisions to LAR, SOLAR, LRAV or SOLRAV values for each Annual Iteration Process.

15.11. Legacy outturn values for each legacy price control adjustment category will be applied to a determination of component term values as soon as they become available in accordance with the methodologies set out in parts 1 to 4 of this Chapter.

15.12. It might exceptionally be necessary for a legacy outturn value to be restated by the licensee or adjusted by Ofgem after it has been applied to the determination of a component term value because of:

- errors or omissions in the preparation of information or inconsistencies with relevant regulatory instructions and guidance (RIGs); or
- an efficiency review by Ofgem, referred to in one of the methodologies in parts 1 to 4 of this Chapter.

In either of those circumstances, the restated/adjusted legacy outturn value would be applied in place of the original value in a subsequent determination of component term values, and reflected in a revision to the relevant PCFM Variable Value for the next Annual Iteration Process.

**Legacy price control adjustment categories**

15.13. Each component term in the formulae set out in Part A of Special Condition 6A and Part A of Special Condition 7A relates to one of the categories shown in Table 15.1 below.

**Table 15.1 – Legacy price control adjustment categories**

<b>Category</b>	<b>Special Condition</b>	<b>Applicable licensees</b>	<b>Component Term</b>	<b>Component in PCFM Variable Value</b>	<b>See Part of this Chapter</b>
Gearing and interest cost adjustments	6A	All	TAR	LAR	1
Capex incentive scheme adjustments	6A	All	CAR CRAV	LAR LRAV	2
Transmission asset owner incentive scheme adjustments	6A	All	IAR IRAV	LAR LRAV	3
Logged up and security costs adjustments	6A	All	SAR SRAV	LAR LRAV	4
Internal cost incentive (SO)	7A	NGET	SOOIR	SOLAR	2
Capex incentive scheme adjustments (SO)	7A	NGET	SOCAR	SOLAR	2
Capex incentive scheme adjustments (SO)	7A	NGET	SOCRAV	SOLRAV	2

## Conventions

15.14. All component term values will be stated and PCFM Variable Values directed in 2009-10 prices, consistent with the price base used in the PCFM and with directed values for the terms MOD and SOMOD.

15.15. In the remainder of this Chapter “Relevant Year t” means the Relevant Year in which a value for the term MOD, calculated through a particular Annual Iteration Process, is used in the formula for the licensee’s Base Transmission Revenue and references to Relevant Year t-1 etc should be construed accordingly.

## Reference documents

15.16. The reference documents (previously published by Ofgem) referred to in Parts 1 to 5 of this Chapter are:

1. Transmission TPCR4 Final Proposals (Ref: 206/06)  
[TPCR4 Final Proposals](#)  
<http://www.ofgem.gov.uk/Pages/MoreInformation.aspx?docid=191&refer=Networks/Trans/Archive/TPCR4/ConsultationDecisionsResponses>
2. Transmission TPCR4 Final Proposals – main supplementary appendices (Ref:206/06b)  
[TPCR4 appendices](#)  
<http://www.ofgem.gov.uk/Pages/MoreInformation.aspx?docid=190&refer=Networks/Trans/Archive/TPCR4/ConsultationDecisionsResponses>
3. Transmission Rollover Final Proposals (Ref 162/11)  
[TPCR4Roll-over](#)  
<http://www.ofgem.gov.uk/Pages/MoreInformation.aspx?docid=75&refer=Networks/Trans/PriceControls/TPCR4Roll-over>
4. Open letter dated 31 July 2009 regarding Clawback of tax benefit due to excess gearing  
[Tax clawback open letter](#)  
<http://www.ofgem.gov.uk/Pages/MoreInformation.aspx?docid=49&refer=Networks>
5. Decision on licence modifications to reflect extension of the TII framework into 2012-13 (dated 1 June 2012)  
[Licence modifications re TII framework June 2012](#)  
<http://www.ofgem.gov.uk/Pages/MoreInformation.aspx?docid=63&refer=Networks/Trans/ElecTransPolicy/CriticalInvestments/InvestmentIncentives>

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## Legacy adjustment calculation workbooks

15.17. As noted in paragraph 15.6, the modelling of the licensee's opening base revenues will have included revenue allowances and RAV addition values for legacy price control adjustments derived from provisional or forecast legacy outturn levels. Those revenue allowance and RAV addition values, represented by fixed input values in the PCFM, will have been established in accordance with applicable licence scheme provisions and, by dint of the PCFM's incorporation into Special Condition 5A (Governance of ET1 Price Control Financial Instruments), the basis for setting those fixed values will have been consulted upon and accepted by the licensee.

15.18. As part of its Final Proposals for the RIIO-T1 price control (see associated document 'b'), the Authority will provide to the licensee, a legacy adjustment calculation workbook<sup>50</sup> ('calculation workbook') in Excel® format. The calculation workbook will contain a worksheet relating to each legacy price control adjustment category and have functionality to calculate and display component term values. Upon issue, blue shaded cells on each worksheet will show the provisional or forecast legacy outturn levels referred to in paragraph 15.15.

15.19. Calculation workbooks will be designed to perform the calculation of component term values using legacy outturn values, in a way which is consistent with:

- the regimes and licence scheme provisions applicable to each legacy price control adjustment category;
- the calculation and determination of the revenue allowance and RAV addition values for legacy price control adjustments included in the licensee's opening base revenues (see paragraph 15.16);
- references to the use of the calculation workbook in the methodologies set out in Parts 1 to 4 of this Chapter.

For the avoidance of doubt, in the event of any conflict between the licence (including this handbook) and the content or functionality of a calculation workbook, the stipulation or meaning given in the licence will prevail.

### Part 1 - Determination of component value for legacy gearing level and interest cost adjustments

15.20. This part sets out the methodology for determining the value of the component term TAR, the revenue allowance adjustment relating to the licensee's gearing levels and corporate debt interest costs in the legacy period. Legacy gearing and interest cost adjustments do not affect RAV balance additions.

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<sup>50</sup> For SHE Transmission plc and SP Transmission Ltd (fast-tracked companies), the workbook will be provided with the Authority's decision document accompanying the proposed licence modifications for the RIIO-T1 price control.

## Description of the adjustment

15.21. In its open letter dated 31 July 2009 (see Chapter 4 paragraph 4.11), the Authority confirmed the approach that would be used to 'clawback' any tax value benefits to the licensee of operating at a level of gearing higher than modelled levels. The methodological approach set out in the letter has been applied in:

- (a) determining the gearing level and interest cost adjustments to be included in the licensee's opening base revenues; and
- (b) setting out the methodology for the legacy gearing level and interest cost adjustment in this part.

Save for some procedural details, it is also consistent with the methodology for (RIIO-T1 period) adjustments driven by gearing levels and corporate debt interest costs set out in part 3 of Chapter 4 of this handbook.

15.22. The legacy gearing level and interest cost adjustments for the transmission owner (TO) and system operator (SO) parts of NGET's business are dealt with as a combined adjustment through the TAR component term.

15.23. The outturn values needed to calculate legacy gearing level and interest cost adjustments in respect of a particular Relevant Year are the licensee's:

- net debt as at 31 March in the Relevant Year;
- RAV balance as at 31 March in the Relevant Year; and
- actual corporate debt interest payments,

in each case, derived in accordance with the criteria set out in reference document 4 from information submissions made by the licensee in accordance with applicable RIGs.

15.24. The RAV balance referred to in this Chapter includes both core and non-core<sup>51</sup> (or shadow) RAV.

### *Relevant Years in the legacy period subject to adjustment*

15.25. Finalised net debt, RAV balance and corporate debt interest levels relating to Relevant Years up to and including 2011-12 will have been available in time to factor revenue allowance adjustments into the licensee's opening base revenues, with the revenue allowance amounts being spread across the eight years of the Price Control Period.

15.26. Finalised net debt, RAV balance and corporate debt interest levels relating to Relevant Year 2012-13 will not have been available when the licensee's opening base revenues were set and forecast legacy outturn levels for those items for that year will have been used in setting the licensee's opening base revenues. A legacy price

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<sup>51</sup> See Glossary

control gearing level and interest cost adjustment therefore needs to be made to reflect legacy outturn levels for net debt, RAV balance and corporate debt interest costs for Relevant Year 2012-13.

15.27. Finalised net debt, RAV balance and corporate debt interest levels relating to Relevant Year 2012-13 are expected to be included in the price control review information submission that the licensee will make by 31 July 2013.

### **Determination of the value of the component term TAR**

15.28. The steps set out in paragraphs 15.29 to 15.32 below will be followed to determine the value of the component term TAR.

#### Step 1

15.29. After 31 July 2013, Ofgem will obtain from price control review information submissions relating to Relevant Year 2012-13 the licensee's:

- net debt balance as at 31 March in Relevant Year 2012-13;
- RAV balance as at 31 March in Relevant Year 2012-13; and
- actual corporate debt interest payments in Relevant Year 2012-13.

#### Step 2 Use of the legacy adjustment calculation workbook

15.30. The legacy outturn values, in nominal terms, obtained under step 1 will be used to overwrite the forecast legacy outturn values for Relevant Year 2012-13 on the TAR worksheet of the calculation workbook.

15.31. Using the legacy outturn values, the calculation workbook is designed to:

- (a) perform a gearing level test - if actual gearing (net debt/RAV balance) is lower than the nominal projected closing gearing levels in the TPCR4 Price Control model, then the gearing level and interest cost adjustment for 2012-13 will be zero; and
- (b) perform a positive benefit test – if actual corporate debt interest payments in 2012-13 are lower than the level used in the modelling of the licensee's base revenue for Relevant Year 2012-13, then the gearing level and interest cost adjustment for 2012-13 will be zero.

15.32. If both of the circumstances in sub-paragraphs 15.32 (a) or (b) applies, the functionality in the calculation workbook will multiply the forecast legacy gearing level and interest cost adjustment used in setting the licensee's opening base revenues (expressed as a negative figure) by -1 to give the incremental adjustment amount which will be shown as the value for the component term TAR.

## **Restatement or adjustment of values used in the determination of TAR**

15.33. As set out in paragraph 9 of this Chapter, a determination of each component term value will be carried out during each Relevant Year of the Price Control Period. If, exceptionally, it is necessary for one or more of the values referred to in step 1 above to be restated or adjusted after its use in a determination of the component term TAR, the value of TAR would be re-determined using the restated/adjusted values for the purpose of determining a revision to the PCFM Variable Value LAR, for use in the next available Annual Iteration Process.

## **Part 2 – Determination of component values for legacy capex incentive scheme adjustments**

15.34. The purpose of this part is to set out the methodology to determine the revised PCFM Variable components (CAR & CRAV) for the TPCR4 Capital Expenditure Incentive scheme and the TPCR4RO Capital Incentive Scheme. Additionally the final section deals with updates to the SO RAV for expenditure that differs from that forecast for 2012-13 and any changes resulting from the capex efficiency review (SOCRAV).

### **Process to update the TO Capex incentive scheme adjustment for TPCR4**

15.35. For the TPCR4 TO allowed revenue, the term  $CxIncRA_t$  means the capital expenditure adjustment term calculated in Special Condition D9 for NGET and J7 for SPTL & SHETPLC (Capital Expenditure Incentive and Safety Net).

15.36. A provisional calculation of this term was made as part of the TPCR4 rollover settlement based on the forecast expenditure and output delivery for the final years of TPCR4. This provisional adjustment was funded in the TPCR4 rollover settlement subject to a review of capex for efficiency, adjustment for actual expenditure in 2011-12, and confirmation of which outputs had been delivered. The capex efficiency review is scheduled to be made following reporting of the rollover year (2012-13) data so that all 6 years can be reviewed together. At that point this calculation will be revised.

15.37. We will initially review all outputs delivered and calculate the Work-in-Progress (WIP) element of capex spend which will be deducted in the calculation of actual spend to be compared to allowances. Within this review we will identify outputs which have been funded and delivered under alternative schemes (TIRG and TII). These outputs will be deducted from outputs measured against allowed capex to give a value for outputs delivered to be compared to the output targets set.

15.38. Special Conditions D9 and J7 sets out the calculation of the capital expenditure adjustment term as the sum of two calculations:

- For SPTL and SHETPLC the first is calculated as the indexed value of the sharing factor (CIR) multiplied by the present value factor (PVF) multiplied by the sum of the zonal generation capex adjustment (LV in D9, LVN in J7). For NGET the first is calculated as the indexed value of the sharing factor (CIR) multiplied by the present value factor (PVF) multiplied by the sum of the zonal generation and demand capex adjustment plus WIP (LV in D9, LVN in J7).
- The second is calculated as the indexed value of the sharing factor (CIR) minus 0.25 multiplied by the present value factor multiplied by the difference between base capex allowance (BC) and efficient outturn capex (AC) (excluding revenue driver capex) minus the sum of the capex adjustment as above (LV/LVN).

15.39. The calculations will be shared with the individual licensees in the workbook "RIIO-T1 legacy calculations".

15.40. In summary to revise the calculation we will :-

- Update for actual allowed capex (subject to a review of efficiency)
- Update Work-in-Progress (WIP) adjustments to reflect actual expenditure and outputs delivered
- Recalculate the profile of adjustments to be made
- Compare to original values and calculate differences
- Uplift differences for Time Value of Money at appropriate pre-tax WACC (ie TPCR4 WACC and TPCR4RO WACC as necessary)
- The difference between actual spend and that forecast will also be used to amend opening RAV (less any consequent depreciation differences).

15.41. Revised allowed capex spend will give rise to amendments to RAV. The RAV adjustment required is calculated by comparing the actual efficient capex to that assumed in the modelling of Final Proposals. This value (net of any depreciation) will form the RAV adjustment for the TPCR4 capex incentive part of the CRAV term.

### **Process to calculate the TO Capex incentive adjustment for TPCR4 Rollover**

15.42. Special Conditions D9 for NGET and J7 for SPTL and SHETPLC also set out the calculation of the provisional allowance of the capital expenditure adjustment term and associated calculations for the Rollover year. The approach is similar to that used for the full TPCR4 period.

15.43. Both J7 and D9 specify the CxIncRO term for the rollover year. For NGET, D9 provides for the capital expenditure adjustment term, as set out in the previous section, to be used to calculate the revenue adjustment needed to reflect the capex incentive for the rollover year (ROAdj). ROAdj makes a revenue adjustment equal to the difference between the capex incentive for the TPCR4 Price Control Period and the revenue allowances made to NGET for the rollover year and the first year of RIIO-T1. ROAdj also makes a revenue adjustment in line with the capex incentive for the rollover year (CxIncRO), where the revenue adjustment is made to clawback/grant additional return and depreciation for the rollover year where actual capex incurred does not match the capex allowance which was used for determining the allowed revenue.

15.44. Again the calculation is as set out in the workbook "RIIO-T1 legacy calculations" and the detail for each company is shown there.

15.45. To summarise the adjustment for actual performance in 2012-13 (the rollover year) we will:

Use allowances and actual spend for 2012-13 (subject to a review of efficiency) in a consistent price base

- Allow for outputs actually delivered and any consequent change to work in progress
- Compare to original values and calculate differences
- Uplift differences for any Time Value of Money adjustment at the appropriate pre-tax WACC (ie TPCR4RO WACC)
- The difference between actual spend and that forecast will also be used to amend opening RAV (less any consequent depreciation differences).

15.46. Revised allowed capex spend will give rise to amendments to RAV. The RAV adjustment required is calculated by comparing the actual efficient capex to that assumed in the modelling of Final Proposals. This value (net of any depreciation) will form the RAV adjustment for the TPCR4 capex incentive part of the CRAV term. Additionally any other differences from the Final Proposal assumed additions will be adjusted for in this calculation. This will include the impact of any disposals in earlier years.

### **Adjustments required for differences in System Operator (SO) expenditure**

15.47. The purpose of this part is to set out the methodology to determine the revised PCFM Variable SOCRAV which represents changes in actual efficient expenditure from that forecast for the System Operator.

15.48. The TPCR4 and rollover sharing mechanism for the SO shares any over or underspend of capex allowances with consumers by adding or deducting the shared portion to RAV. The calculation (carried out in 2009-10 prices) is set out in the Legacy Price Control workbook which will be made available to the licensee.

15.49. This calculation takes the following steps:

- Taking the original calculation of additions to RAV and noting the RAV additions profile (ie efficient capex plus incentive)
- Updating the actual efficient expenditure as required
- Comparing actual efficient expenditure to allowances and deducting 25% of overspend from the costs incurred/ adding back 25% of underspend to give a revised RAV additions profile
- Calculating the difference in profiles between the original profile and revised profile
- Summing the differences to arrive at the SOCRAV term

15.50. A value will only be ascribed to the SOCAR component term where that is necessary to reimburse amounts of allowed revenue, due to the licensee under legacy period System Operator expenditure incentive scheme adjustments, which would not be included in the effects of a revision to the SOCRAV component term.

### **Determination of SOOIR values**

15.51. The SOOIR component term represents the allowed revenue adjustment relating to legacy period System Operator internal costs incentive adjustments that will be determined under the formula for the term IncPayInt (with respect to Relevant Year 2012-13) set out at paragraph 15B of Special Condition AA5A of the licence in the form in which it was in at 31 March 2013, subject to clarifications to the calculation that were set out in correspondence between the Authority and the licensee during Relevant Year 2012-13.

### **Part 3 – Determination of component value for Transmission Asset Owner Incentive adjustments relating to the legacy period**

15.52. The purpose of this section is to set out the methodology to determine the revised PCFM Variable Components (IAR & IRAV) for the TPCR4 Transmission Asset Owner Incentives under the Transmission Investment Incentives (TII) framework.

## **Description of the TPCR4 Transmission Asset Owner Incentives**

15.53. The TPCR4 Transmission Asset Owner Incentives are specified in Special Conditions D2 and D11 of NGET's licence and J2 and J12 of the licences of SPTL and SHETPLC.

15.54. SC D11 and J12 (Transmission Asset Owner Incentives) introduced the Transmission Investment Incentives (TII) framework in April 2010 to provide project-specific interim funding for critical large-scale investment projects required to support Government 2020 renewable energy targets such as the Western HVDC link. The relevant projects are identified in annex A of D11/J12 with associated capital expenditure allowances and deliverables.

15.55. On 5 April 2012, Ofgem published a statutory consultation on proposed licence modifications to extend the Transmission Investment Incentives (TII) framework to 2012-13.

15.56. The purpose of the licence modifications was to reflect the extension of the TII policy framework into 2012-13; and the capital expenditure allowances for 2012-13.

15.57. On 1 June 2012, Ofgem published a decision letter on licence modifications to extend the TII framework for application in the TPCR4 Rollover and to reflect capital expenditure allowances determined up to and including 2012-13.

15.58. The wording of the above licence modifications recognised that in line with the TPCR4 Rollover Final Proposals and the November 2011 policy decision letter on the extension of the TII framework to 2012-13:

- the baseline allowance for each TO in 2012-13 had already been set taking into account aggregate provisional TII allowance, as a proxy for the sum of the capital expenditure allowances which were still to be determined under TII for 2012-13
- the revenue for 2012-13 had also already been set taking into account a provisional revenue adjustment in respect of capital efficiency incentive taking into account expenditure under TII to the end of 2010-11 and
- further revenue adjustments would be required in subsequent years (under the RIIO price control) in relation to:
  - the true-up between TII allowances assumed in setting revenues for a given year and final TII allowances determined for that year; and the application of the capital efficiency incentive to expenditure under TII to the end of 2012-13.

15.59. In line with the above policy, as a consequence of the licence modifications to reflect the TPCR4 Rollover Final Proposals and subsequent licence modifications to extend the TII framework to 2012-13:



- the aggregate provisional TII allowance taken into account in setting baseline allowance for each TO has resulted in an implicit revenue adjustment via the PRt term for 2012-13 defined in Special Condition D2/J2;
- the provisional revenue adjustment in respect of the capital efficiency incentive was reflected in an explicit TII-specific revenue adjustment, via the TOInct term for 2012-13 defined in Special Condition D2/J2; and
- the provisions for future revenue adjustments and associated RAV adjustments are set out in paragraphs 2A-2D of Special Condition D11/J12, where paragraph 2C allows that the revenue adjustment determined by the Authority under 2A or 2B will endeavour to ensure that the financial position of the licensee is the same as if the allowance adjustment had been known at the time of setting the allowed revenue and the same as if the revenue adjustment had been taken into account in setting the allowed revenue.

15.60. Special Condition 6B (Adjustment to the Transmission Network Revenue Restriction due to Transmission Investment Incentives) supersedes Special Condition D11/J12. Special Condition 6B includes provisions for specification of inputs to the calculation of revenue adjustments, and associated RAV adjustments, in line with the approach previously reflected in paragraph 2A-2D of Special Condition D11/J12. Such adjustments are reflected in the determination of IAR values and IRAV values under Special Condition 6A in line with the methodology set out below.

#### **Calculation of TPCR4 Transmission Asset Owner Incentives adjustment**

15.61. The calculation of IAR and IRAV values is based on the following inputs specified or determined in Special Condition 6B:

- Fixed input value: TII Assumed Allowance for each TII year, TII Initial Allowance for each TII year, and the TII Provisional Revenue Adjustment, and
- Variable input value: TII actual allowance for each TII year.

15.62. Special Condition 6B paragraph 6B.7 states that IAR values and IRAV values may be determined by the Authority to reflect:

- a) A true-up of the difference between the TII Assumed Allowance for a given TII year and the TII Actual Allowance for the same TII year, and/or
- b) The application of the capital expenditure incentive regime on the difference between expenditure incurred by the licensee and TII Actual Allowance for each TII year.

15.63. Special Condition 6B paragraph 6B.10 sets out the principles by which revenue adjustments will be calculated, in line with those set out in paragraph 2C of

superseded Special Condition D11/J12, To achieve this Ofgem will base any revenue adjustment in line with paragraph ~~6B-76B.7~~(a) of Special Condition 6B on an off-line calculation following the process below:

- Noting the Base Revenue allowance made in modelling the TPCR4 Rollover Final Proposals from the pre-RIIO-T1 financial model (ie the one used to model the rollover allowances) for 2012-13. This Base Revenue was based on the allowances assumed for setting revenues for this year as reflected in the TII Assumed Allowance for 2012-13.
- Comparing the TII Assumed Allowance with the TII Actual Allowance for each TII year and, where these are different calculate the change in revenue (in 2009-10 prices) for each TII year as follows:
  - i. Where the difference relates to a given TII year prior to 2012-13, calculate the change in revenue for that TII year, and all subsequent TII years excluding 2012-13, directly based on the revenue formulation in the TII legacy condition for the same TII year, and
  - ii. In all cases, calculate the change in revenue for 2012-13 by updating the pre-RIIO-T1 financial model for 2012-13 (ie the one used to model the rollover base revenue allowance) to take account of the TII Actual Allowance for the TII year 2012-13 to produce a revised revenue for 2012-13. That is, replacing the TII Assumed Allowance with the TII Actual Allowance so that the resulting revenue calculated using the pre-RIIO-T1 financial model for 2012-13 reflects the total TII capex allowance finally determined for 2012-13 as set out in Special Condition 6B.
- Applying an allowance for the Time Value of Money to the change in revenue to determine the revenue adjustment to be made in the RIIO-T1 period.

15.64. We will base any revenue adjustment in line with paragraph ~~6B.752-8~~(b) of Special Condition 6B on an off-line calculation following the process below:

- Using the efficient expenditure for 2009-10 and 2010-11 and the efficient expenditure for 2011-12 we will compare the expenditure to the TII Actual Allowance for each year and applying the relevant sharing factor (as specified in Table 5 of Appendix 1 of Special Condition 6B) to the difference to calculate the revenue adjustment;
- netting off the TII Provisional Revenue Adjustment which was previously taken into account in setting the revenue for 2012-13, and
- applying an allowance for the Time Value of Money to the change in revenue to determine the revenue adjustment to be made in the RIIO-T1 period. Where the outcome of the efficiency review of expenditure is not

known we will use the provisional capex numbers in the above calculation and repeat the process using updated information at the next Annual Iteration Process.

15.65. For the purposes of applying the allowance for the Time Value of Money in paragraphs 15.5463-15.6455, the revenue adjustment to be made in the RIIO-T1 period will be calculated on the basis that it will be made on 1 April 2013. However, in practice revenue adjustments determined by 30 November in one financial year will be an input to the Annual Iteration Process through which it will be made on 1 April in the following financial year.

15.66. Where actual TII efficient expenditure differs from TII expenditure (and forecast expenditure) in the TPCR4 period and the TPCR4 Rollover year we will calculate the adjustment to the RIIO-T1 opening RAV. This calculation will compare actual efficient expenditure (in 2009-10 prices) to that in the same price base assumed in calculating the RIIO-T1 opening RAV. Where a difference exists we will adjust for any over/ under allowance of depreciation to determine the required change to RAV.

15.67. The above policy will be reflected by determining revised PCFM Variable Components (IAR & IRAV) for the TPCR4 Transmission Asset Owner Incentives as follows:

- The TPCR4 Transmission Asset Owner Incentives scheme revenue adjustment will be derived from the sum of all revenue adjustments calculated in line with paragraphs 15.631-53-15.651-55 and will form the IAR component in the LAR PCFM variable value for 2013-14.
- The TPCR4 Transmission Asset Owner Incentives RAV adjustment determined in line with paragraph 15.656 forms the IRAV component in the LRAV PCFM variable value for 2013-14.

#### **Part 4 – Determination of component value for logged up and security costs adjustments relating to the legacy period**

15.68. This part set out the methodology for determining the value of the component terms SAR and SRAV, the revenue allowance and RAV balance addition adjustments relating to the licensee's actual efficient expenditure levels on logged up and security costs during the legacy period.

##### **Description of the adjustment**

15.69. The TPCR4 price control arrangements, and the TPCR4 Rollover arrangements provided for the licensee to log up certain types of cost which were not included in opex or capex allowances for those Price Control Periods. The cost categories concerned were, however, recognised under the term 'LC<sub>t</sub>' in the formula for the licensee's Transmission Owner Revenue and specified in:

- paragraph 3 of Special Condition D2 (for NGET); and
- paragraph 4 of Special Condition J2 (for SP Transmission Ltd and SHE Transmission plc),

of the respective electricity transmission licences in the form they were in on 31 March 2013.

15.70. The licensee was required to record and report the levels of expenditure being logged up on specified activities so that, for the RIIO-T1 price control arrangements:

- (a) an appropriate aggregate addition (in 2009-10 prices) to the licensee's RAV balance could be made, reflecting capex; and
- (b) appropriate, additions (including Time Value of Money adjustments) could be made to the licensee's base revenue allowances (spread across the Price Control Period) reflecting:
  - (i) the amounts which would have been included in base revenues; and
  - (ii) the higher RAV balances which would have earned a return and depreciation allowance,if the costs had been included in TPCR4/Rollover opex and capex allowances.

15.71. In addition, the licensee was allowed to report incremental costs incurred on physical security measures ('security costs') for certain operational sites during the TPCR4/Rollover period.

15.72. The outturn values needed to calculate the RAV balance additions and revenue adjustments are the licensee's efficient logged up and security costs during the legacy period.

*Relevant years in the legacy period subject to adjustment*

15.73. The licensee's reported totals for logged up and security costs relating to Relevant Years up to and including 2011-12 will have been available for the modelling of the licensee's opening base revenues and opening RAV balance for the Price Control Period. However, reported totals for Relevant Year 2012-13 will not have been available when the licensee's opening base revenues and opening RAV balance were set and forecast levels for that year will have been used. In addition, logged up and security costs reported by the licensee are subject to an efficiency review by Ofgem (see reference document 1).

15.74. Legacy price control logged up and security cost adjustments therefore need to be made to reflect:

- reported levels of logged up and security cost expenditure for Relevant Year 2012-13; and

- the outcome of the Ofgem efficiency review of logged up and security costs during the legacy period.

### **Determination of the value of the component term SAR**

15.75. The steps set out in paragraphs 15.76 to 15.80 below will be followed to determine the value of the component term SAR.

#### Step 1

15.76. After 31 July 2013, Ofgem will obtain from price control review information submissions relating to Relevant Year 2012-13 the licensee's reported totals for:

- logged up costs categorised (capex);
- logged up costs categorised (opex); and
- security costs (capex and opex).

for each Relevant Year in the TPCR4 and Rollover Year Price Control Period.

#### Step 2

15.77. Ofgem will re-base each of the figures obtained under Step 1 into 2009-10 prices (see section on price base in Chapter 1).

#### Step 3 Use of the legacy adjustment calculation workbook

15.78. The rebased totals for capex and opex items obtained under step 2 will be used to overwrite the pre-existing logged up and security cost values on the SAR worksheet of the calculation workbook.

15.79. The calculation workbook is designed to:

- (a) calculate the difference between the logged up (capex) costs referred to in Step 2 and the logged up (capex) values (in the same price base) used in the modelling of the licensee's opening base revenues;
- (b) calculate the difference between the logged up (opex) costs referred to in Step 2 and the logged up (opex) values (in the same price base) used in the modelling of the licensee's opening base revenues;
- (c) calculate the difference between the security costs (capex and opex) referred to in Step 2 and the security cost (capex and opex) values (in the same price base) used in the modelling of the licensee's opening base revenues;

- (d) calculate the return and depreciation that should be allowed on the figures obtained under sub-paragraph (a) for each Relevant Year in the TPCR4 and Rollover Year Price Control Period;
- (e) add the figures obtained under sub-paragraphs (b) and (c) to the figures obtained under sub-paragraph (d) for each Relevant Year in the TPCR4 and Rollover Year Price Control Period;
- (f) apply a Time Value of Money adjustment to each of the totals obtained under sub-paragraph (e); and
- (g) sum the figures obtained under sub-paragraph (f) to calculate the overall revenue allowance adjustment to be applied in 2009-10 prices.

15.80. The value referred to in paragraph 15.81(g) will be determined to be the value of the component term SAR.

### **Determination of the value of the component term SRAV**

#### Use of the legacy adjustment calculation workbook

15.81. The calculation workbook is designed to:

- (a) automatically extract to the SRAV worksheet, the difference figures relating to logged up (capex) costs, for each Relevant Year in the TPCR4 and Rollover Year Price Control Period, referred to in sub-paragraph 15.7981(a);
- (b) deduct from the figures referred to in sub-paragraph (a), the respective depreciation amounts referred to in sub-paragraph 15.7981(d); and
- (c) sum the figures obtained under sub-paragraph (b) to calculate the overall RAV balance addition to be applied in 2009 prices

15.82. The value referred to in sub-paragraph 15.813(c) will be determined to be the value of the component term SRAV.

### **Restatement or adjustment of values used in the determination of CAR and CRAV**

15.83. As set out in paragraph 10 of this Chapter, a determination of each component term value will be carried out during each Relevant Year of the Price Control Period.

15.84. If it is necessary for one or more of the values referred to above to be restated or adjusted after use in a determination of the component terms SAR and SRAV, in particular following a cost efficiency review by Ofgem, the values of SAR and SRAV would be re-determined using the restated/adjusted values for the

purpose of determining a revision to the PCFM Variable Value LAR or LRAV, for use in the next available Annual Iteration Process.

## **Part 5 – Statement of component values and determination and direction of revised PCFM Variable Values**

15.85. Parts A and B of Special Condition 6A provide for the determination of revised PCFM Variable Values for Relevant Year 2013-14, that relate to legacy price control adjustments, for use in the Annual Iteration Process. Determinations will be made by 30 November in each Relevant Year using the formulae set out in Part A of Special Condition 6A and component term values determined in accordance with Part B of that condition and the methodologies set out in parts 1 to 4 of this Chapter.

15.86. As described in paragraphs 15.7 and 15.8 above, all of the outturn values needed to finalise legacy price control adjustments should be available by 31 July 2013. This means that they can be used in the determination of revised PCFM Variable Values for the Annual Iteration Process that will take place by 30 November 2013. It should only be necessary to make subsequent revisions to those PCFM Variable Values where price control review information relating to the legacy period is restated in accordance with relevant licence conditions and/or RIGs documents. The effect of any such subsequent revisions will, subject to a Time Value of Money adjustment, be included in the calculation of the term  $MOD_t$  in relation to the Annual Iteration Process concerned.

15.87. A determination of PCFM Variable Values relating to legacy price control adjustments will be made by 30 November in each Relevant Year and the overall direction of PCFM Variable Values revisions for each Annual Iteration Process will include a facsimile of the PCFM Variable Values Table(s) for the licensee. This will confirm the post direction state of PCFM Variable Values relating to legacy price control adjustments.

15.88. Part C of Special Condition 6A sets out the procedure to be used for the direction of revised PCFM Variable Values relating to legacy price control adjustments. It specifies that:

- a) the direction of revised PCFM Variable Values will be made by 30 November in each Relevant Year;
- b) the direction will include a statement of the component term values used in the determination of any revised PCFM Variable Values;
- c) the licensee will be given at least 14 days notice of any revisions to PCFM Variable Values that the Authority proposes to direct; and
- d) the Authority will have due regard to any representations or objections made by the licensee during the period referred to in sub-paragraph c) and give its reasons for any decisions made in relation to them.

15.89. If, for any reason, in any Relevant Year  $t-1$ , the Authority does not make a required direction of revised PCFM Variable Values relating to legacy price control



adjustments, Part C of Special Condition 6A specifies that the Authority will direct the values concerned as soon as is reasonably practicable thereafter.



## Appendix - Glossary

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### A

#### Accounting Standards Board/ASB

The ASB is the body which issues Accounting Standards in the UK. It is recognised for that purpose under the Companies Act 1985.

#### Annual iteration Process

The annual iteration process is the process of annually updating the variable (bluebox) values in the price control financial model and running the model in order to provide updated MOD and SOMOD values.

### C

#### Cut-Off Date

In respect of licensees pension scheme established deficit, means 31 March 2010 for DNOs, 31 March 2013 for GDNs and 31 March 2012 for TOs and SOs.

### D

#### Defined Benefit Scheme

A pension scheme where the benefits that accrue to members are normally based on a set formula taking into account the final salary and accrual of service in the scheme. It is also known as a final salary pension scheme.

#### Defined Contribution Scheme

A pension scheme where the benefits that accrue to members are based on the level of cash contributions made to an individual account and the returns on those funds are used to provide a cash amount to purchase an annuity on retirement.

### E

#### ET1

Prefix/Suffix designating an item relevant to the RIIO-T1 (electricity transmission) price control review which will be applicable for the eight years running from 1 April 2013.

## ET1 Price Control Financial Model (PCFM)

The model of that name (with a Relevant Year suffix):

- (a) that is represented by a workbook in Microsoft Excel ® format maintained under that name (with a Relevant Year suffix) on the Authority's website; and
- (a) that the Authority will use to determine the values of the terms MOD and SOMOD through the application of the Annual Iteration Process,

as modified from time to time, whether under Special Condition 5A or otherwise.

The PCFM calculates appropriate changes to the licensee's base revenue through an Annual Iteration Process - see Chapters 1 and 2.

## **F**

### Fast money

The proportion of Totex which is not credited to the licensee's RAV balance and is effectively included in the licensee's revenue allowance for the year of expenditure

### Funding Adjustment Rate

This is the percentage calculated as  $1 - \text{Incentive strength}$ .

## **I**

### International Financial Reporting Standards/IFRS

IFRS are accounting standards set by the International Accounting Standards board. These standards ensure comparability and accuracy of accounts.

## **M**

### MOD Term [TO and SO]

The term of that name included in the formula for Base Revenue set out in Special Condition 4A of the Electricity Transmission licence. It represents the incremental change to base revenue for the Relevant Year concerned, ascertained in accordance with the methodologies set out in this Handbook. The value of the MOD term is calculated through the annual iteration of the ET1 Price Control Financial Model (see Chapter 1) and is specified in a direction given by the Authority by 30 November in each Relevant Year.

## **N**

### Non-core RAV

See Shadow RAV

## NPV

Net present value

## O

### Ofgem

The Office of the Gas and Electricity Markets Authority.

## P

### Pension scheme established deficit

The difference between assets and liabilities, determined at any point in time, attributable to pensionable service up to the end of the respective Cut-Off Dates and relating to Regulated Business Activities under Pension Principle 2. The term applies equally if there is a subsequent surplus.

## R

### RAV – Regulatory Asset Value

A financial balance representing expenditure by the licensee which has been capitalised under regulatory rules. The licensee receives a return and depreciation on its RAV in its price control allowed revenues.

### Relevant Year

A year beginning on 1 April to which the provisions of this handbook apply.

## RIIO

Revenue = Incentives + Innovation + Outputs.  
Ofgem's new framework for the economic regulation of energy networks.

### RIIO-T1 (Electricity Transmission)

The price control arrangements which will apply to Electricity Transmission licensees from 1 April 2013 until 31 March 2021.

## S

### Shadow RAV

Refers to expenditure, already incurred, which has not yet been admitted to the licensee's formal RAV balance, but which is expected to be admitted at a future point. This is also referred to as "non-core RAV". This arises as a feature of specific funding mechanisms such as TIRG.

### Slow money

The proportion of Totex which is credited to the licensee's RAV balance on which the licensee receives a revenue allowance to cover finance (vanilla WACC) and depreciation costs.

## SO

NGG as the gas system operator has responsibility to construct, maintain and operate the NTS and associated equipment in an economic, efficient and co-ordinated manner. NGET as the electricity system operator has responsibility to construct, maintain and operate the NETS and associated equipment in an economic, efficient and co-ordinated manner. In their roles as SOs, NGG and NGET are responsible for ensuring the day-to-day operation of the transmission systems.

## T

### Time value of money adjustment

A multiplier used when the award or application of a financial value, attributable to a particular year, is deferred until a later year, even where the deferral is routine and in accordance with a price control mechanism.

In basic terms, the multiplier is  $(1+X)^Y$  where:

- X is the Vanilla WACC for the licensee applicable to the period of deferral; and
- Y is the number of years of deferral

## TII

Formerly known as TO incentives which provide an appropriate funding framework for anticipatory investment.

## TIRG

This is a mechanism for funding transmission projects specific to connecting renewable generation. The mechanism was implemented during TPCR4, outside of the price control allowance, to minimise delays. TIRG is comprised of four projects: Beaulieu Denny, Sloy, South West Scotland, and the Anglo Scottish Interconnector.

## TO

Companies which hold transmission owner licenses. Currently there are three electricity TOs; NGET, SPTL and SHETPLC. NGG NTS is the gas TO.

### Totex Incentive Mechanism (TIM)

TIM is the financial reward (or penalty) that companies are given in allowances for under or over spend on uncertain projects. For RIIO-T1 Final Proposals opening base revenues will have been modelled on the basis that actual Totex expenditure levels are expected to equal allowed Totex expenditure levels (allowances). If actual (outturn) expenditure differs from allowances, for any Relevant Year during the Price Control Period, the TIM provides for an appropriate sharing of the incremental amount (whether an overspend or underspend) between consumers and licensees.

## Totex

See Chapter 6 paragraphs 6.1920 – 6.201

## Totex Capitalisation Rate

The percentage of Totex which is added to RAV (slow money)

## TPCR (Electricity Transmission)

The RPI-X type price control arrangements which applied to electricity transmission licensees from 1 April 2008 to 31 March 2012 (with a one year extension to 31 March 2013 – referred to as TPCR4 rollover).

## Triennial Valuation

An actuarial valuation of a pension scheme which has been carried out to meet the requirements of Section 224(2)(a) of the Pensions Act 2004 and which details in a written report, prepared and signed by the Scheme Actuary, the value of the scheme's assets and Technical Provisions. Actuarial valuations are usually produced triennially but the term may also refer equally to any full actuarial valuation that is not an Updated Valuation.

## U

UK Generally Accepted Accounting Practice/UK GAAP

## W

## WACC

The Vanilla Weighted Average Cost of Capital is Ofgem's preferred way of expressing the rate of return allowed on the Regulatory Asset Values (RAV) of price controlled network companies. The use of Vanilla WACC means that the company's tax cost is separately calculated as a discrete allowance so that only the following have to be factored in:

- the pre-tax cost of debt - ie the percentage charge levied by lenders, and
- the post tax cost of equity – ie the percentage return equity investors expect to actually receive,

weighted according to the price control gearing assumption.

"Real Vanilla WACC" is used which gives a lower percentage than "Nominal Vanilla WACC" would (when inflation is positive). This is because inflation isn't taken into account in the determination of the Real Vanilla WACC percentage since revenue allowances (which include the Vanilla WACC return) are separately RPI indexed.