



Malcolm Burns  
Regulation Manager  
Scottish and Southern Energy  
Inveralmond House  
200 Dunkeld Road  
Perth  
PH1 3AQ

*Promoting choice and  
value for all customers*

Our Ref: Networks/Electricity Distribution

Direct Dial: 020 7901 7209  
Email: rachel.fletcher@ofgem.gov.uk

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Dear Malcolm

**Assessment of applications from Scottish Hydro Electric Power Distribution (SHEPD) and Southern Electric Power Distribution (SEPD) to re-open their current price controls to accommodate additional costs related to the introduction of and changes to the Electricity Safety Quality and Continuity Regulations 2002 (ESQCR) and the Traffic Management Act 2004 (TMA).**

## 1. Introduction

- 1.1. The purpose of this letter is to set out our "minded to" position regarding your re-opener applications for SHEPD and SEPD associated with the ESQCR and TMA.
- 1.2. As part of the last price control review we recognised that the introduction of the ESQCR and potential further changes to the regulations that BERR were consulting on at the time associated with tree cutting for network resilience would place additional costs on Distribution Network Operators (DNOs). We also recognised that there were uncertain costs associated with the implementation of the TMA and the equivalent legislation in Scotland. At that time the magnitude of these costs was uncertain and we considered it was preferable to specify fixed allowances once the efficient level of costs could be assessed<sup>1</sup>.
- 1.3. Under Special Condition A3<sup>2</sup>("the relevant condition") of the distribution licence each DNO may by notice to the Authority propose a relevant adjustment to the Charge Restriction conditions in regards to changes to the ESQCR and TMA. Ofgem has four months to determine a relevant adjustment to the Charge Restriction or, by default, the DNO's proposed adjustment is made by the licensee giving notice to the Authority that it will take effect.
- 1.4. The effect of the changes to the ESQCR is to deliver increased safety and improved network performance during both normal and severe weather conditions.
- 1.5. Due to the delayed implementation of the TMA we are only considering costs incurred by DNOs in readiness for managing work under the permit schemes.

<sup>1</sup> Electricity Distribution Price Control Review Final Proposals November 2004 ref 265/04

<sup>2</sup> Arrangements for the recovery of uncertain costs

## **2. Background**

- 2.1. We have consulted with all relevant parties in advance of inviting the reopener notices to achieve regulatory predictability and consistency.
- 2.2. We published open letters to all stakeholders on 27 February 2008 and 22 May 2008 inviting views regarding the treatment of reopener applications. In addition we wrote to licensees on 4 June 2008 setting out the data we required to enable us to carry out efficiency assessments.
- 2.3. We wrote to DNOs on 1 July 2008 setting out our "minded to" approach to assessing all reopener applications. This approach was recommended and agreed by the Authority on 17 July 2008 and reaffirmed by them on 19 February 2009.
- 2.4. Under delegated authority, Steve Smith determined the appropriate revenue adjustments for the first round of DPCR4 reopener applications on 31 October 2008. These the outcome of these applications from ENW, CE, and WPD were published on our website and are summarised in table 1 of the attached appendix.
- 2.5. We have formulated our "minded to" position in relation to this application having considered the responses received from stakeholders to our open letters together with the narrative information on DNOs processes and procedures regarding tree cutting and overhead line clearances and any further data received in response to follow-up requests and following our bilateral meeting.

## **3. Summary of approach to key issues**

- 3.1. Our approach is to allow DNOs to recover the efficient overall level of costs associated under the revised obligations over and above the costs that have already been allowed under the current price control. This will avoid any risk of double counting given that as part of DPCR4 final proposals we made an allowance for increased tree cutting activity.
- 3.2. We have assessed the efficiency of additional costs applied for under the re-opener in a two stage process; firstly by an assessment involving quantitative benchmarking, carrying out cost comparisons and secondly a qualitative assessment of management and contract processes to seek evidence of value for money by reviewing the DNOs' strategies, procedures and approaches for managing the work. The additional overhead line clearance costs will be capitalised and the additional tree cutting costs part expensed and part capitalised in accordance with the DPCR4 rules. Indirect costs, non-operational capex and pension costs also follow the treatment set out at DPCR4.
- 3.3. We have assessed the impact of the additional work under the ESQCR on quality of service incentives. We set out our proposed approach to assessing the impact of the additional work under the ESQCR on quality of service incentives in our 1 July 2008 letter. We noted that "where a DNO failed to meet the planned element of their Customer Interruption (CI) and Customer Minutes Lost (CML) targets as a result of this work we would make an adjustment to revenue compensating them for this underperformance." A number of DNOs suggested that this approach could penalise a company that had taken steps to improve its planned interruption performance. This was given further consideration and a revised methodology was adopted. In our assessment we have benchmarked the planned interruption performance across companies relative to the cost of work being carried out and have allowed the full benchmark impact. We have done this for each of the main sources of planned interruptions Energy Networks Association Technical Specification (ENATS) 43-8 work, Engineering Technical Report (ETR) 132 work, horizontal and vertical clearances.

- 3.4. Further to the responses to the minded to letters sent out 30 September and the responses received we have considered the appropriate timeframe over which the additional revenue should be recovered taking into account the fact that some of these costs have already been incurred and the potential impact on consumers.
- 3.4.1. If DNOs seek to recover these costs within 2009-10 through a mid year change in charges, we consider that this is reasonable, subject to it not leading to an overall increase in distribution charges of more than four per cent per annum in real terms (i.e. over and above any inflationary increase) when any other adjustments are taken into account (such as any revenue under recovery from the previous period). If the increase in charges when other adjustments are made is in excess of four per cent per annum in real terms then any remaining amounts due can be recovered in subsequent years within DPCR5 on an NPV neutral basis and will be a subject for discussion under DPCR5.
- 3.4.2. If DNOs seek to recover all these costs within DPCR5 the timing for recovery will be agreed as part of the DPCR5 discussions.

## 4. Our analysis

### Tree-cutting costs

- 4.1. We recognise that DNOs have historically operated to different policies resulting in varying workloads to enable them to meet the common standards now enforced under ESQCR.
- 4.2. We have carried out a qualitative assessment of the of the applications to ascertain that DNOs have in place appropriate contracts and management structures to enable sustainable vegetation management that seeks long term value rather than low cost short term compliance. As part of this sustainable approach we consider that well developed stakeholder<sup>3</sup> relationships are important to create the credibility that allows for establishing the set clearances, reducing restricted cuts and applying innovative solutions such as replanting schemes.
- 4.3. We have compared unit costs for the ENATS 43-8 tree cutting work across all DNOs for each voltage level. Our assessment of the reopener applications focused on: (a) historical expenditure already incurred in the current price control and (b) forecast expenditure for the remainder of the current price control.
- 4.4. As there are some significant differences in costs we have developed a range of costs from the lower to the upper quartile (both including and excluding indirect costs and pension costs). We have adjusted DNOs' tree cutting costs downwards to the top end of our benchmark range where they fall outside of this.
- 4.5. We have reviewed DNOs' assessments of their costs for carrying out additional ETR132<sup>4</sup> tree cutting for network resilience. Most DNOs have made an initial assessment of the volumes of work required either based on the DTI Impact Assessment (IA) which suggested that 20 per cent of the overhead line network should be addressed over 25 years or their own risk assessment and are prioritising the work on a risk basis. However, most DNOs have made clear that they are at a relatively early stage in assessing the costs and have adopted the £9000 per km unit costs set out in the IA adjusted for inflation.

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<sup>3</sup> Stakeholders include organisations such as Country Landowners Association, Forestry Commission, Local and Parish councils, Woodland Trust. To develop long term strategies such as replanting schemes, efficient clearances and a reduction in "restricted cuts" it is essential for DNOs to establish credibility with these interest groups to enable DNOs to have sustainable and efficient process and costs.

<sup>4</sup> ETR132 – Engineering Technical Report – Improving network performance under abnormal weather conditions by use of a risk based approach to vegetation management near electric overhead lines – March 2006

- 4.6. We have assessed the costs for ETR132 work by multiplying the DNOs forecast volumes by the £9000 per km unit cost adjusted for inflation and have capped our assessment at this level.
- 4.7. Our overall adjustment for tree cutting has then been calculated as the sum of our assessment of efficient costs for the five year period minus the DPCR4 allowances for the equivalent period.

### **Vertical and horizontal line clearances**

- 4.8. We have carried out a qualitative assessment of the written submissions with DNOs with regard to vertical and horizontal line clearances. In general DNOs have robust processes in place although there is some room for improvement.
- 4.9. We have compared unit costs across the DNOs , for different approaches to dealing with horizontal and vertical clearance issues at different voltages taking account of differences in the number of services per pole for each DNO and also compared with costs in our connections database. We have adopted a benchmark for each solution and voltage based on this data. We have used our judgement to establish benchmark costs based on the upper quartile of the DNO cost information and from the cost database. Where DNOs' costs are above our benchmark we have adjusted them down to the benchmark.

## **5. Next Steps**

- 5.1. The proposed adjustments set out in this letter are based on network and cost data held by Ofgem on 23 February 2009. In recognition that either the DNO or Ofgem may wish to update this data prior to the final decision we have allowed a two week period of consultation after which the data will be fixed for the purpose of this assessment. The closing date for this consultation period will be 5pm on 9 March 2009. The final decision will be made by 31 March 2009 taking into account any representations that are made.
- 5.2. Please confirm that you agree to this letter and the final decision being published on our website. If you do not agree please identify the information you wish to keep confidential together with an explanation.
- 5.3. In consultation with DNOs and other interested stake holders we have carried out some initial research by combining national tree coverage information with companies' digitised network maps to better understand the relationship between actual costs and the network in each DNO. We propose to hold a workshop to consult with industry regarding the further development of this concept and possible use of this methodology in setting allowances for DPCR5.
- 5.4. Responses and/or requests for bilateral meetings should be sent by email to [simon.polley@ofgem.gov.uk](mailto:simon.polley@ofgem.gov.uk) or by post to Simon Polley, The Office of Gas and Electricity Markets, 9 Millbank, London SW1P 3GE.

Yours sincerely



Rachel Fletcher  
Director of Distribution

## Appendix

### 6. Overall claim summary, proposed adjustments to costs and price control revenue

6.1. Table 1 sets out a summary of the previous reopener applications and decisions.

£m (2007-08 prices)	ENW	CE		WPD		Average
		NEDL	YEDL	S Wales	S West	
Increase in allowed revenue. (DNO costs through Ofgem model)	15.3	11.5	20.3	1.1	6.2	10.9
Allowed revenue 2009-10	266.1	189.5	245.7	176.9	216.9	219.0
% increase in allowed revenue	5.7%	6.1%	8.3%	0.6%	2.8%	5.0%
Relevant Adjustments (Authority Decision)	10.7	10.5	20.3	1.1	5.5	9.6
% increased in allowed revenue 2009/10	4.0%	5.6%	8.3%	0.6%	2.5%	4.4%

6.2. Table 2 - As there is a two year lag in the interruption incentive scheme the interruption performance feeds into DPCR5 as set out below:

Total CI and CML impact for 2008-09 and 2009-10 revenue adjustment to incentive scheme for 2010-11 and 2011-12		Costs £m (2007-08 prices)	2010-11	2011-12
CN	CN West	DNO view	0.34	0.73
		Ofgem minded to position	0.26	0.42
	CN East	DNO view	0.20	0.40
		Ofgem minded to position	0.10	0.30
CE	NEDL	DNO view	0.07	0.12
		Ofgem minded to position	0.07	0.12
	YEDL	DNO view	0.03	0.07
		Ofgem minded to position	0.03	0.07
SP	SP Dist	DNO view	0.37	0.40
		Ofgem minded to position	0.37	0.40
	SP Manweb	DNO view	1.10	1.20
		Ofgem minded to position	1.10	1.20
SSE	SHEPD	DNO view	0.13	0.46
		Ofgem minded to position	0.10	0.23
	SEPD	DNO view	0.05	0.54
		Ofgem minded to position	0.03	0.46

6.3. Tables 3-5 set out the DNOs' proposed revenue assessment based on their reopener applications processed through our financial model and our "minded to" position. We have carried out our calculations on the basis that all adjustments feed in to 2009-10 revenue.

Table 3

DNO submission through Ofgem model	CN		CE		SP		SSE		Average
	CN West	CN East	NEDL	YEDL	SP Dist.	SP Manweb	SHEPD	SEPD	
<b>2007/08 £m</b>									
Horizontal clearance	1.5	1.2	0.3	1.0	1.5	6.9	0.8	1.7	1.9
Vertical clearance	1.0	0.8	1.8	2.7	20.6	39.5	4.1	0.0	8.8
Tree Cutting	10.9	10.7	0.0	0.0	0.0	14.2	2.6	8.8	5.9
Indirects, TMA	2.4	2.3	0.5	0.6	2.5	2.9	0.0	0.0	1.4
Pensions	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
QoS	0.4	0.3	0.0	0.0	0.8	2.0	0.1	0.0	0.4
Additional Revenue	11.9	12.2	0.5	0.6	6.5	24.5	2.7	7.0	8.2
Allowed revenue 2009-10	288.7	295.9	189.5	245.7	351.6	209.9	204.3	409.9	274.4
% of 09/10	4.1%	4.1%	0.3%	0.3%	1.8%	11.7%	1.3%	1.7%	3.2%

Table 4

Ofgem minded to position	CN		CE		SP		SSE		Average
	CN West	CN East	NEDL	YEDL	SP Dist.	SP Manweb	SHEPD	SEPD	
<b>2007/08 £m</b>									
Horizontal clearance	1.5	0.8	0.3	0.7	1.5	6.3	0.8	1.7	1.7
Vertical clearance	1.0	0.8	1.8	2.3	20.5	39.5	4.1	0.0	8.7
Tree Cutting	9.3	7.4	0.0	0.0	0.0	12.6	0.8	7.1	4.6
Indirects, TMA	2.3	1.8	0.5	0.5	2.5	2.9	0.0	0.0	1.3
Pensions	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
QoS	0.4	0.3	0.0	0.0	0.8	2.0	0.1	0.0	0.4
Additional Revenue	10.4	8.7	0.5	0.4	6.5	23.0	1.1	5.7	7.0
Allowed revenue 2009-10	288.7	295.9	189.5	245.7	351.6	209.9	204.3	409.9	274.4
% of 09/10	3.6%	2.9%	0.3%	0.2%	1.8%	10.9%	0.6%	1.4%	2.7%

Table 5

Difference	CN		CE		SP		SSE		Average
	CN West	CN East	NEDL	YEDL	SP Dist.	SP Manweb	SHEPD	SEPD	
<b>2007/08 £m</b>									
Horizontal clearance	0.0	0.4	0.0	0.3	0.0	0.6	0.0	0.0	0.2
Vertical clearance	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.1
Tree Cutting	1.6	3.3	0.0	0.0	0.0	1.6	1.9	1.7	1.2
Indirects, TMA	0.1	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Pensions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QoS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Additional Revenue	1.6	3.6	0.0	0.2	0.0	1.5	1.5	1.4	1.2
Allowed revenue 2009-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
% of 09/10	0.5%	1.2%	0.0%	0.1%	0.0%	0.7%	0.7%	0.3%	0.5%

## 7. Detailed assessment of SSE reopener application

7.1. Table 6 sets out our assessment of SSE SHEPD and SSE SEPD applications and the reasons for the adjustments that we are minded to make.

Costs £m (2007-08 prices)	Company	SSE Hydro	Difference	Explanation
Tree cutting costs (EATS 43-8 and ETR 132)	DNO costs	2.6		The unit costs of the EATS 43-8 are within our benchmark range and we propose no adjustment. The unit costs for the ETR 132 work are significantly above our benchmark value and we propose to adjust the costs down to our benchmark.
	Ofgem view	0.8	1.9	
Horizontal building clearances	DNO costs	0.8		The unit costs are either within or very near to the top of above our benchmark range and we propose to apply a minor adjustment.
	Ofgem view	0.8	0.0	
Vertical clearances	DNO costs	4.1		The unit costs are within our benchmark range and we propose no adjustment.
	Ofgem view	4.1	0.0	
Other (pensions, indirect and non-operational capex)	DNO costs	0.0		
	Ofgem view	0.0	0.0	
CI and CML impact	DNO costs	0.15		We have benchmarked the total CI and CML relative to the costs of the work being undertaken. We propose no adjustment for CI and CML arising in 2005-06 to 2007-08
	Ofgem view	0.15	0.0	
Total	DNO costs	7.6		
	Ofgem view	5.8		
Difference		1.9		
% difference		24%		
Costs £m (2007-08 prices)	Company	SSE Southern	Difference	Explanation
Tree cutting costs (EATS 43-8 and ETR 132)	DNO costs	8.8		The unit costs of the EATS 43-8 are within our benchmark range and we propose no adjustment. The unit costs for the ETR 132 work are significantly above our benchmark value and we propose to adjust the costs down to our benchmark.
	Ofgem view	7.1	1.7	
Horizontal building clearances	DNO costs	1.7		The unit costs are within our benchmark range and we propose no adjustment.
	Ofgem view	1.7	0.0	
Vertical clearances	DNO costs	0.0		
	Ofgem view	0.0	0.0	
Other (pensions, indirect and non-operational capex)	DNO costs	0.0		
	Ofgem view	0.0	0.0	
CI and CML impact	DNO costs	0.0		
	Ofgem view	0.0	0.0	
Total	DNO costs	10.5		
	Ofgem view	8.8		
Difference		1.7		
% difference		16%		

7.2. In our qualitative assessment of SSE's vegetation management we identified a number of areas of good practice. In particular SSE's work programme uses a sophisticated data management and recording process which takes account of fault history. SSE have robust contract management and organisational practices with

regular performance reviews and clear management accountability. They have adopted good arboricultural practices including replanting schemes and are members of the Utility Arboricultural Core Group.

- 7.3. SSE recognise the importance of stakeholder relationships and have established lines of communication with trade bodies and the councils in the areas where they are working.
- 7.4. SSE scored highly in their approach to addressing the resolution of horizontal and vertical overhead line clearances issues. We note that they have consulted with the HSE regarding their programme and intend to achieve full compliance in twelve years using a sophisticated method of prioritisation to determine the order of work. We note that they have identified conductor re-tensioning as potentially the most cost effective way to resolve low clearance issues on a number of sites. They undertake comprehensive local public relations communication in advance of working in an area. We found their costs to be efficient and are 'minded to' allow their claim in full.
- 7.5. We found SSE's unit costs for EATS 43-8 tree cutting costs to be efficient and are 'minded to' allow their claim in full.
- 7.6. SSE has submitted a claim for costs forecast to be incurred due to ETR 132. SSE appear to have made less progress than some other DNOs towards introducing ETR132 and have sought clarification from the HSE regarding what is required under ESQCR. Their unit costs in both SHEPD (£16.6k) and SEPD (£19.1k) are significantly higher than our bench mark figure of £9.7k/km.
- 7.7. SSE has not submitted a claim for set up costs arising from the TMA.