

November 2002

**Draft MODIFICATION REPORT  
MODIFICATION PROPOSAL P75 –  
Introduction of Zonal Transmission  
Losses**

Prepared by ELEXON on behalf of the Balancing  
and Settlement Code Panel

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### b Distribution

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The Gas and Electricity Markets Authority	Ofgem
Each BSC Panel Member	Various
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### d References

- Reference 1 Joint Assessment Report (Version 1.0, 8 November 2002):  
‘Modification Proposal P75 – Introduction of Zonal Transmission Losses’  
‘Modification Proposal P82 – Introduction of Zonal Transmission Losses on an Average Basis’
- Reference 2 Initial Written Assessment of Modification Proposal P75 (Version 1.0, 9 April 2002):  
‘Introduction of Zonal Transmission Losses’
- Reference 3 Definition Report (Version 1.1, 14 May 2002)  
‘Modification Proposal P75 – Introduction of Zonal Transmission Losses’
- Reference 4 Interim Report (Version 1.0, 12 July 2002):  
‘Modification Proposals P75 & P82’

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## 1 SUMMARY AND RECOMMENDATIONS

### 1.1 Recommendation

On the basis of the analysis, consultation and assessment undertaken in respect of this Modification Proposal during the Assessment Procedure, and the resultant findings of this report, the Balancing and Settlement Code Panel ('the Panel') recommends that:

**Proposed Modification P75 should not be made.**

**In the event that the Authority determines that the Proposed Modification should be made, the Implementation Date should be 1 April 2004, where an Authority decision is received by 31 December 2002. Where an Authority decision is received after this date, but before 31 March 2003, the Implementation Date should be 1 October 2004.**

**Alternative Modification P75 should not be made.**

**In the event that the Authority determines that the Proposed Modification should be made, the Implementation Date should be 1 April 2004, where an Authority decision is received by 31 December 2002. Where an Authority decision is received after this date, but before 31 March 2003, the Implementation Date should be 1 October 2004.**

The Authority note that P75 (Proposed and Alternative) and P82 (Proposed and Alternative) are mutually exclusive.

### 1.2 Background

Modification Proposal P75 'Introduction of Zonal Transmission Losses' ('P75') was submitted on 5 April 2002 by Powergen. After a one-month Definition Procedure to define the issues associated with the proposal, P75 was submitted to a six-month Assessment Procedure. The extended period was primarily a function of the perceived requirement to tender for and obtain a modelling service to help assess the impact of the P75. During the course of that Assessment Procedure, an Alternative Modification was developed.

The Assessment Report (Reference 1), containing the analysis and recommendation of the Transmission Loss Factor Modification Group (TLFMG) in respect of the Proposed Modification, can be found on the ELEXON website ([www.elexon.co.uk](http://www.elexon.co.uk)). The Assessment Report made a recommendation that the Alternative Modification should be made.

### 1.3 Rationale for Recommendations

The Panel considered the P75 Assessment Report at its 14 November 2002 meeting. On the basis of the analysis undertaken by the TLFMG, the modelling results and the consultation responses received, the Panel decided to recommend to the Authority that neither the Proposed Modification nor the Alternative Modification should be made. The Panel concurred with the view held by a substantial minority of the TLFMG, and a narrow majority of the consultation respondents, neither the Proposed Modification nor the Alternative Modification would better facilitate achievement of the Applicable BSC Objectives.

A narrow majority of the TLFMG had judged that implementation of the Alternative Modification would, through more accurate allocation of the cost of transmission losses, result in more efficient despatch in the short-term and more efficient location of generation and demand in the long-term. In addition, the

majority view was that competition would be enhanced through the promotion of efficient entry/exit and the prevention of inefficient entry/exit to and from the market due to the elimination of the cross-subsidy inherent in the current allocation of the losses.

The Panel, however, was of the opinion that the putative increase in the efficiency of the operation of the Transmission Network (i.e. Applicable BSC Objective (b)) and enhancement in competition (i.e. Applicable BSC Objective (c)) ascribed to the P75 by the TLFMG were not proven. It was the Panel's view that conclusive evidence that the proposed zonal differentiation would allocate the cost of transmission losses more accurately than the current arrangements had not been presented. In addition, the Panel was of the opinion that, on balance, the effect of any gains in the accuracy of cost allocation would be outweighed by the additional risk introduced by the ex-post nature of P75 and the industry-wide costs associated with its implementation. Furthermore, a majority of Panel members believed that the ex-ante nature and phased implementation of the Alternative Modification would not be sufficient to yield a net benefit.

The Panel agreed with the TLFMG's recommendation that, should the Authority determine that either the Proposed Modification or the Alternative Modification should be made, the Implementation Date should be 1 April 2004.

## **2 INTRODUCTION**

This Report has been prepared by ELEXON Ltd., on behalf of the Panel, in accordance with the terms of the Balancing and Settlement Code ('the Code'). The Code is the legal document containing the rules of the balancing mechanism and imbalance settlement process and related governance provisions. ELEXON is the company that performs the role and functions of the BSCCo, as defined in the Code.

This Modification Report is addressed and furnished to the Gas and Electricity Markets Authority ('the Authority') and none of the facts, opinions or statements contained herein may be relied upon by any other person.

An electronic copy of this document can be found on the BSC Website, at [www.elexon.co.uk](http://www.elexon.co.uk)

## **3 HISTORY OF PROPOSED MODIFICATION**

P75 was submitted on 5 April 2002 by Powergen. P75 proposes that transmission losses should be allocated to 'generation' and 'demand' on a zonally differentiated basis with generation being grouped by TNUoS zone and demand by GSP Group. Whilst the Code recognises that transmission losses could be allocated on a locational basis, the parameters to support this, the Transmission Loss Factors (TLFs), are currently set to zero (any changes to these values would require a change to the Code). At present, allocation is on a uniform basis, with a defined split between 'generation' and 'demand'.

Under P75, a Transmission Loss Factor Agent (TLFA) would be appointed to calculate half-hourly TLFs on an ex-post basis using a 'fully marginal' methodology.

The Proposer of P75 believes that the introduction of such zonal differentiation would more accurately allocate the cost of losses to those market participants responsible for them, thus removing the inherent cross-subsidy that dampens cost signals in the current method of allocation. In the short-term, the Proposer asserts that the removal of such cross-subsidies would provide locational signals to help reduce overall transmission losses. In the long-term, the Proposer asserts that more efficient locational signals would encourage 'more optimal' siting of generation and demand.

ELEXON produced an Initial Written Assessment (IWA) (Reference 2) recommending that P75 should be submitted to a one-month Definition Procedure in order to identify the detail absent in the proposal and identify the issues that would need to be considered during an Assessment Procedure. The Panel endorsed ELEXON's recommendation on 18 April 2002, requesting that a Definition Report (Reference 3) be presented at the 16 May 2002 Panel meeting. The Panel indicated that the Definition Procedure ought to be used to establish terms of reference for an Assessment Procedure and identify the issues that would need to be assessed.

A Modification Group, the TLFMG, was established to provide the appropriate expertise to take P75 forward through the Modification Procedure. The TLFMG met twice during the Definition Procedure, on 29 April 2002 and 7 May 2002, to consider the responses received to a consultation undertaken and to establish the requirements of any future Assessment Procedure. On the basis of those requirements, primarily the need to tender for and obtain a modelling service to help assess the impact of P75, the TLFMG produced a Definition Report recommending a six-month Assessment Procedure. At its 16 May 2002 meeting, the Panel agreed to submit P75 to a six-month Assessment Procedure, with an Assessment Report scheduled to be presented at the 14 November Panel meeting. The Modification Proposal P82 'Introduction of Zonal Transmission Losses on an Average Basis' was considered at the same Panel meeting and submitted to six-month Assessment Procedure, to be considered in parallel with P75 by the TLFMG. In addition, the Panel requested an Interim Report for the Panel Meeting on 18 July 2002.

The TLFMG carried out a joint Assessment Procedure for P75 and P82, in recognition of their similar solutions to the same perceived defect. A project plan was drawn up, and the TLFMG met 15 times to assess the proposal.

The TLFMG decided to set up two subgroups in order to progress the business in an efficient manner during the six month Assessment Procedure:

- a 'Modelling Subgroup' to produce a requirement specification for the modelling service identified as necessary support the Assessment Procedure; and
- a 'Data Subgroup' to identify the input data that would need to be made available to the provider of such a modelling service.

The TLFMG produced an Interim Report containing an initial assessment of P75 and P82 (Reference 4), a High Level Impact Assessment from the BSC Agent<sup>1</sup> and the requirement specification and a proposed tender process for the modelling service.

Having secured Panel authorisation, ELEXON, on behalf of the TLFMG issued an Invitation to Tender (ITT) for the modelling service on 22 July 2002. A Tender Evaluation Board (TEB), composed of members from the full TLFMG and ELEXON, was established. Five tenders were received by the 2 August 2002 deadline and assessed by the TEB. Four of the tendering organisations were short-listed and invited to present their tenders to the TEB on 8 August 2002. On the basis of the tender submitted and the accompanying presentation, the TEB recommended that ELEXON's Chief Executive award the contract to Power Technologies International (PTI). The TEB was of the opinion that PTI combined the most economically advantageous tender with greatest capacity to deliver. ELEXON's Chief Executive ratified the recommendation and the contract was awarded to PTI on 15 August 2002. PTI delivered a final report, containing the modelling results, on 14 October 2002.

The TLFMG produced and issued a consultation document containing an interim set of modelling results and the results of the Assessment Procedure up to that point on 2 October 2002. Twenty-nine

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<sup>1</sup> See Assessment Report (Attachment 3)

responses were received by the 21 October 2002 deadline<sup>2</sup>. In addition, Detailed Level Impact Assessments (DLIAs) were sought and received from Parties, the BSC Agent and the Transmission Company by the same deadline<sup>3</sup>.

On the basis of the consultation responses, impact assessments and modelling results, the TLFMG met twice more to formulate its recommendations and finalise its assessment. During the Assessment Procedure the TLFMG considered a number of options that could constitute an alternative to the proposal submitted. An Alternative Modification was developed in which monthly TLFs would be calculated on an ex-ante basis and phased in linearly over four years.

Finally, an Assessment Report was produced and submitted for consideration at the Panel meeting held on 14 November 2002. The report contained a recommendation to submit the Proposed Modification to the Report Phase and with a recommendation that the Alternative Modification should be made. On the basis of the assessment undertaken, a narrow majority of the TLFMG was of the opinion that the Alternative Modification would better facilitate achievement of the Applicable BSC Objectives. Conversely, the majority of the TLFMG judged that the Proposed Modification would not better facilitate achievement of the Applicable BSC Objectives<sup>4</sup>.

## **4 DESCRIPTION OF PROPOSED MODIFICATION**

Full descriptions of both the Proposed Modification and the Alternative Modification are included in the Assessment Report<sup>5</sup>. This section of the Modification Report provides high-level descriptions.

### **4.1 Description of the Proposed Modification**

P75 proposes that transmission losses should be allocated to 'generation' and 'demand' on a zonally differentiated basis with generation being grouped by TNUoS zone and demand by GSP Group. Whilst the Code recognises that transmission losses could be allocated on a locational basis, the parameters to support this, the Transmission Loss Factors (TLFs), are currently set to zero. At present, allocation is on a uniform basis, with a defined split between 'generation' and 'demand'.

Under P75, a Transmission Loss Factor Agent (TLFA) would be appointed to calculate half-hourly TLFs on an ex-post basis using a 'fully marginal' methodology.

The Proposer of P75 believes that the introduction of such zonal differentiation of transmission losses would more accurately target the cost of losses on those market participants responsible for them, thus removing the inherent cross-subsidy that dampens cost signals in the current method of allocation. In the short-term, the Proposer asserts that the removal of such cross-subsidies would provide locational signals to help reduce overall transmission losses. In the long-term, the Proposer asserts that more efficient locational signals would encourage 'more optimal' siting of generation and demand.

The Proposer explicitly stated that certain elements of the proposed solution were suggestions only, such elements included Settlement Period specific TLFs. On the basis of the Transmission Company DLIA, which indicated that the provision of half-hourly network data would be significantly more costly than that of daily data, the modelling results, which suggested that within-day variation in TLFs would be minimal, and the NETA Central System Agent DLIA, which entailed additional costs to accommodate half-hourly variations in TLF, the TLFMG decided that TLFs would be Settlement Day specific.

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<sup>2</sup> See Assessment Report (Attachment 7)

<sup>3</sup> See Assessment Report (Attachments 4, 6 & 9)

<sup>4</sup> See section 7 of this report for details of the assessment that led to these recommendations.

<sup>5</sup> See section 4 of the Assessment Report (available at [www.elexon.co.uk](http://www.elexon.co.uk)).

The table below summarises the key characteristics of the Proposed Modification:

Feature	Modification Proposal P75
TLF Methodology (TLFM)	'Marginal' & defined in the Code
TLF Calculation	Daily Ex-post
Validity of TLFs	One Settlement Day
Zonal Groupings	<u>Generation</u> – TNUoS zones <u>Demand</u> – GSP Groups
Type of Flow to be Modelled	Direct Current (DC)
Network Configuration Data	Historic Intact Data
Process for Conversion of Metered Volumes into Nodal Metered Volumes	Specified mapping
Process for Conversion of Nodal TLFs into Zonal TLFs	'Volume-weighted' Averaging
Process for Conversion Half-hourly TLFs into Dail TLFs	Time-weighted Averaging

## 4.2 Description of the Alternative Modification

The TLFMG established an Alternative Modification having considered a number of potential schemes for delivering zonal differentiation of transmission losses. A narrow manjority of the TLFMG believed that an ex-ante and monthly version of P75 would avoid the cost and risk associated with an ex-post and half-hourly approach. In addition, it was felt that phased implementation would smooth the impact of zonal differentiation and protect forward contracts made prior to the introduction of such an arrangement.

The table below summarises the key characteristics of the Alternative Modification:

Feature	Alternative Modification (P75)
TLF Methodology (TLFM)	'Marginal' & defined in the Code
TLF Calculation	Monthly Ex-ante
Validity of TLFs	One Month
Zonal Groupings	<u>Generation</u> – TNUoS zones <u>Demand</u> – GSP Groups
Type of Flow to be Modelled	DC
Network Configuration Data	Historic Intact Data
Process for Conversion of Metered Volumes into Nodal Metered Volumes	Specified Mapping
Process for Conversion of Nodal TLFs into Zonal TLFs	'Volume-weighted' Averaging
Process for Conversion of Half-hourly TLFs into Monthly TLFs	Time-weighted Averaging
Phasing	Linear 'Beta' Phasing over 4 Years

## 5 RATIONALE FOR PANEL RECOMMENDATIONS

The Panel considered the P75 Assessment Report at its 14 November 2002 meeting. On the basis of the analysis undertaken by the TLFMG, the modelling results and the consultation responses received, the Panel decided to recommend to the Authority that neither the Proposed Modification nor the Alternative Modification should be made. The Panel concurred with the view held by a substantial minority of the TLFMG, and a narrow majority of the consultation respondents, neither would better facilitate achievement of the Applicable BSC Objectives.

### 5.1 Rationale for Recommendations

The Panel was of the opinion that the putative increase in the efficiency of the operation of the Transmission Network (i.e. Applicable BSC Objective (b)) and enhancement in competition (i.e.



Applicable BSC Objective (c)) ascribed to P75 by the TLFMG were not proven. Conclusive evidence that the proposed zonal differentiation would allocate the cost of transmission losses more accurately than the current arrangements had not, in the opinion of the Panel, been presented. In addition, the Panel was of the opinion that, on balance, the effect of any gains in the accuracy of cost allocation would be outweighed by the additional risk introduced by the ex-post nature of P75 and the industry-wide costs associated with its implementation. Furthermore, a majority of Panel members believed that the ex-ante nature and phased implementation of the Alternative Modification would not be sufficient to yield a net benefit.

The Panel agreed with the TLFMG's recommendation that, should the Authority determine that either the Proposed Modification or the Alternative Modification should be made, the Implementation Date should be 1 April 2004.

## 5.2 Panel Discussion

In addition to making recommendations in terms of the Applicable BSC Objectives, views on the basis for the TLFMG's recommendations, the cost-benefit undertaken by National Economic Research Associates, the weight of opinion amongst consultation responses, and the wider context within which P75 should be considered were expressed.

First, several Panel members noted that both the TLFMG in formulating its recommendations and consultation respondents were divided in their opinions.

Second, the Panel discussed the cost-benefit analysis undertaken by NERA concluding that neither the Proposed Modification nor the Alternative Modification would yield a net benefit. One Panel member expressed the view, which was supported by several other members, that the analysis was sensitive to the assumptions made regarding costs and prices. He further suggested that some of the assumptions were questionable. Another member was of the opinion that the differential impact on market participants ought not to be the only consideration of a cost-benefit analysis – the net impact on transmission losses ought to be considered. For example, an overall reduction in losses would be beneficial. Finally, one member noted that the cost-benefit analysis had not addressed the issue of additional complexity in the market rules potentially acting as a barrier to entry.

Third, two Panel members noted that the majority of consultation responses appeared to believe that neither the Proposed Modification nor an at that time unspecified alternative would better facilitate achievement of the Applicable BSC Objectives. One member noted that all non-BSC Party respondents opposed both the Proposed Modification and the Alternative Modification.

Finally, several Panel members expressed the opinion that assessment of both the Proposed Modification and the Alternative Modification needed to take account of the wider context within which the industry was located. One member expressed the view that planning and political considerations were more significant factors in the siting of generation than the allocation of transmission factors and that the demand-side would not respond to any locational signals introduced by zonal differentiation of losses. Opinions were also expressed that assessment of the Proposed Modification and the Alternative Modification needed to take into account the potential interaction of locational loss signals and the TNUoS Charging Methodology. Several members noted that the proposed implementation date of 1 April 2004 was the same date targeted for the implementation of BETTA, and that the potential interaction needed to be taken into account. The Panel concluded however, that consideration of BETTA, in accordance with the view it expressed earlier in the Assessment Procedure, was outside the *vires* of the Code.

## **6 LEGAL TEXT TO GIVE EFFECT TO THE PROPOSED MODIFICATION**

### **6.1 Proposed Modification: Conformed Version**

*The ex-post nature of the Proposed Modification means that it requires significant additional legal drafting as compared to the Alternative Modification. As such, the legal drafting will be issued as an addendum to this report on 25 November 2002.*

### **6.2 Proposed Modification: Clean Version**

*The ex-post nature of the Proposed Modification means that it requires significant additional legal drafting as compared to the Alternative Modification. As such, the legal drafting will be issued as an addendum to this report on 25 November 2002.*

### **6.3 Alternative Modification: Conformed Version**

Attached as Annex 4 of this report.

### **6.4 Alternative Modification: Clean Version**

Attached as Annex 5 of this report.

## **7 ASSESSMENT**

On the basis of the analysis, consultation and assessment undertaken during the Assessment Procedure, the TLFMG recommended that Panel recommend rejection of the Proposed Modification but that the Alternative Modification should be made<sup>6</sup>. However, it should be noted that opinion amongst the TLFMG was divided and views were polarised as to whether or not the Proposed Modification and the Alternative Modification would better facilitate achievement of the Applicable BSC Objectives.

A majority of the TLFMG judged that the costs associated with the implementation of the Proposed Modification would exceed the benefits that it would deliver through increased efficiency in the operation of the Transmission Network (i.e. Applicable BSC Objective (b)) and the enhanced competition (i.e. Applicable BSC Objective (c)). The benefits of more efficient despatch in the short-term and more efficient siting decisions in the long-term, coupled with those of promotion of efficient entry/exit and prevention of inefficient entry/exit, would be outweighed by the un-hedgeable risk (i.e. Applicable BSC Objective (c)) and costs associated with an ex-post scheme (i.e. Applicable BSC Objective (d)).

However, a narrow majority of the TLFMG had judged that implementation of the Alternative Modification would, through more accurate allocation of the cost of transmission losses, result in more efficient despatch in the short-term and more efficient location of generation and demand in the long-term. In addition, the majority view was that competition would be enhanced through the promotion of efficient entry/exit and the prevention of inefficient entry/exit to and from the market due to the elimination of the cross-subsidy inherent in the current allocation of the losses. The TLFMG believed that an ex-ante and monthly version of P75 would avoid the cost and risk associated with an ex-post and half-hourly approach. In addition, it was felt that phased implementation would smooth the impact of zonal differentiation and protect forward contracts made prior to the introduction of zonal differentiation.

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<sup>6</sup> See sections 5 and 8 of the Assessment Report (available at [www.elexon.co.uk](http://www.elexon.co.uk)).

The view held by a substantial minority of the TLFMG was that neither of the Proposed Modification nor the Alternative Modification would better facilitate achievement of the Applicable BSC Objectives. The view being that the putative increase in the efficiency of the operation of the Transmission Network (i.e. Applicable BSC Objective (b)) and enhancement in competition (i.e. Applicable BSC Objective (c)) associated ascribed to P75 by the TLFMG were not proven. Conclusive evidence that the proposed zonal differentiation would allocate the cost of transmission losses more accurately than the current arrangements had not been presented. In addition, the effect of any gains in the accuracy of cost allocation would be outweighed by the additional risk introduced by the ex-post nature of P75 and the industry-wide costs associated with its implementation. Furthermore, it was judged that the ex-ante nature and phased implementation of the Alternative Modification would not be sufficient to yield a net benefit.

The impact assessments received from ELEXON, the BSC Agent, the Transmission Company and Parties suggested that the earliest possible implementation date would be 11 November 2003. However, given that both the majority of the TLFMG and consultation respondents believed that implementation should coincide with the start of a financial year and the date of a contracting round, the 1 April 2004 was recommended by the TLFMG.

## **8 SUMMARY OF REPRESENTATIONS**

### **8.1 Report Phase Consultation**

*Summary of responses to consultation on Draft Modification Report to be inserted upon receipt. Copies to be inserted as Annex 1.*

### **8.2 Assessment Procedure Consultation**

A summary and copies of the representations received and considered by the TLFMG under the Assessment Procedure consultation on this proposal can be found in Attachment 7 of the Assessment Report on. This Modification Report should be read in conjunction with that Assessment Report.

## **ANNEX 1 – REPRESENTATIONS**

*Copies of representations on Draft Modification Report to be inserted upon receipt.*

## **ANNEX 2 – 'CLEAN' LEGAL TEXT (PROPOSED MODIFICATION)**

*To be circulated as an addendum to this report on 25 November 2002.*

### **ANNEX 3 – ‘CONFORMED’ LEGAL TEXT (PROPOSED MODIFICATION)**

*To be circulated as an addendum to this report on 25 November 2002.*

## **ANNEX 4 – ‘CLEAN’ LEGAL TEXT (ALTERNATIVE MODIFICATION)**

See attachment 4.

## **ANNEX 5 – ‘CONFORMED’ LEGAL TEXT (ALTERNATIVE MODIFICATION)**

See Attachment 5.