

NETA Change Form

Title		Version No.
Introduction of a Zonal Transmission Losses Scheme with Transitional Scheme		0.3
		LogicaCMG Reference
		ICR745
ELEXON Reference	Date CP Received	Date IA Issued
P200	29 June 2006	14 July 2006
LogicaCMG Contact Name	Baseline for Impact Assessment	
Gemini Carrington	Revised Requirements Specification for P200 v2.0, dated 29 June 2006 [P200AS20.pdf]	
Price Breakdown		
Item description	Remarks	Price (ex VAT)
Change Specific	Original Proposal	£ 158,171
	Alternative Proposal	£ 158,171
Release Costs	Original Proposal	£ 134,422
	Alternative Proposal	£ 134,422

Total Price (ex VAT)	Original Proposal	£ 292,593
	Alternative Proposal	£ 292,593

Price Tolerance	0%
Justification for Price Tolerance	
N/A	

Project Duration	22 weeks
Cut Off Date for Inclusion in Specified Release (if applicable)	
N/A	

Operational Price (e.g. per annum or event) (ex VAT)	£0
Rationale	
N/A	

Annual Maintenance Price (ex VAT)	£0
Rationale	
The Annual Maintenance Price is zero under the agreement commencing on 1 January 2005.	

Validity Constraints	
<ul style="list-style-type: none"> • Price and duration are only for the additional impact above that of P198, identified in ICR726 v0.2. For a full P200 costing the prices may simply be added together (there are no duplicated costs). The combined project duration is estimated to be 26 Weeks. • No allowance is included for the final solution being different from the baseline • No allowance is included for supporting Release Audit activities. Any effort will be charged at contracted T&M rates • No allowance is included for supporting ELEXON assurance activities. Any effort will be charged at contracted T&M rates • No allowance is included for End to End/Participant Testing activities. Any effort will be charged at contracted T&M rates • No allowance is included for Walkthrough activities. Any effort will be charged at contracted T&M rates • No allowance is included to support ELEXON in parallel run testing activities <p>The validity period for this assessment is 30 days and is based on the following payment schedule:</p> <ul style="list-style-type: none"> • LogicaCMG will invoice 30% on receipt of Purchase Order or authorised start of work, 30% on completion of first build phase, 30% on live implementation and 10% on successful completion of the Success Criteria or one month after live implementation, whichever is sooner 	
Authorised Signature	Date Signed

Requirements and Solution

Brief Summary of Change

P200 seeks to introduce zonal Transmission Loss Factors (TLF) as proposed in P198. However P200 adds a transitional hedging scheme to mitigate the impact of the introduction on existing generators. This will be done by retaining a non-zonal allocation of transmission losses for a fixed level of output (the F-factor) and allocating a zonal TLF only to a variation from this output.

LogicaCMG's Proposed Solution

As specified in the baseline document this impact assessment describes only the additional impact of P200 over and above that already assessed for P198 (ICR726 v0.2).

The changes required are described below.

Original Modification

CRA

A set of monthly F-factors for a BM Unit will be received from the BSCCo via a new manual interface. This will consist of one initial load of F-factor data for all BM Units with applicable F-factors and low volume updates thereafter (F-factors will only change due to the proposed appeal process).

Tasks involved are:

- Amend IDD Part 2
- Amend CRA URS
- Amend CRA MSS
- Amend CRA OSM
- Create scripts to load the F-factor data from flat file
- Create database table to store the monthly F-factors and make available to the SAA for use in its calculations

SAA

Two of the complex settlement calculations will be amended to include use of the appropriate F-factor.

Tasks involved are:

- Amend IDD Part 2
- Amend SAA URS
- Amend SAA SS
- Amend SAA DS
- Amend SAA-F006 (Calculate BM unit transmission loss multipliers) to use F-factors:- *This is the calculation of the Transmission Loss Multipliers for delivering Trading Units (TLMO_j⁺) that takes into account an allocated F-factor Hedging where appropriate for qualifying BM Units.*
- Amend SAA-F008 (Calculate credit energy volumes) to use F-factors:- *This is the calculation of Credited Energy Volume for each BM Unit, Energy Account for each Settlement Period accounting for the F-factor Hedging where appropriate for both Lead and Subsidiary BM Units.*

BMRA

The BMRA uses ETLMO^{+/-} for its transmission loss estimations. A revised monthly ETLMO⁺ (12 per year) will be received via the existing interface and will be treated in the same way as the existing ETLMO⁺ dated parameter. These revised values will apply to all BM Units. (i.e. There will be no distinction between the monthly values of ETLMO⁻ used for BM Units that qualify for hedging and those that do not.)

Therefore there is no software impact on the BMRA.

Alternative Modification

The impact of the alternative solution on the LogicaCMG systems is the same as the original solution as it merely adds more F-Factors loaded from a flat file.

Deviation from ELEXON's Solution / Requirements

None

Operational Solution and Impact

None

Testing Strategy

Unit	X	Change Specific	X	End to End	
Module	X	Operational Acceptance	X	Participant Testing	
System	X	Performance		Parallel Running	
Regression		Volume		Deployment/ Backout	X

Other:

As the Settlement Calculations will be changed significantly, the complex Regression Test Pack (including system modelling spread sheets) will need to be updated. Scenarios to be tested will be identified and agreed. The corresponding data scenarios will need to be created. Finally all the data creation tools will be saved and new scenarios added to the Regression Test Pack.

Validated Assumptions

- ETLMO⁻ will be unaffected by the P200 changes.
- F-factor values will be received from BSCCo in a flat file format.
- Publication and reporting of the F-factor values will only occur via the ELEXON website.
- No additional data retention is required by the CRA or SAA to support determination of F-factors.

Outstanding Issues

None

Changes to Service**Services Impacted**

	BMRA	CDCA	CRA	ECVAA	SAA	TAA	Other
Software			X		X		
IDD Part 1 (Docs)							
IDD Part 1 (S'heet)							

IDD Part 2 (Docs)			X		X																																																																																																																																																																																																																																																																																																																																			
IDD Part 2 (S'heet)																																																																																																																																																																																																																																																																																																																																								
URS			X		X																																																																																																																																																																																																																																																																																																																																			
SS			X		X																																																																																																																																																																																																																																																																																																																																			
DS			X		X																																																																																																																																																																																																																																																																																																																																			
MSS			X																																																																																																																																																																																																																																																																																																																																					
OSM			X																																																																																																																																																																																																																																																																																																																																					
LWIs																																																																																																																																																																																																																																																																																																																																								
RTP	Will be updated for the F-factor																																																																																																																																																																																																																																																																																																																																							
Comms	None																																																																																																																																																																																																																																																																																																																																							
Other	None																																																																																																																																																																																																																																																																																																																																							
Nature of Documentation Changes																																																																																																																																																																																																																																																																																																																																								
As detailed in the LogicaCMG's Proposed Solution section of this document.																																																																																																																																																																																																																																																																																																																																								
Nature / Size of System Changes																																																																																																																																																																																																																																																																																																																																								
Medium																																																																																																																																																																																																																																																																																																																																								
Deployment Issues, e.g. Outage Requirements:					None																																																																																																																																																																																																																																																																																																																																			
Impact on Service Levels:					None																																																																																																																																																																																																																																																																																																																																			
Impact on System Performance:					None																																																																																																																																																																																																																																																																																																																																			
Responsibilities of ELEXON																																																																																																																																																																																																																																																																																																																																								
<ul style="list-style-type: none"> • Within reasonable levels, ELEXON will make available appropriate staff to assist LogicaCMG during the development of this change. • F-factor value will be published on the ELEXON Website 																																																																																																																																																																																																																																																																																																																																								
Acceptance Criteria																																																																																																																																																																																																																																																																																																																																								
This is covered by the acceptance criterion 2 in the "CVA Program – Release Acceptance Criteria" document for the Feb03 Release.																																																																																																																																																																																																																																																																																																																																								
Any Other Information																																																																																																																																																																																																																																																																																																																																								
Indicative Plan																																																																																																																																																																																																																																																																																																																																								
<table border="1"> <thead> <tr> <th>ID</th> <th>Task Name</th> <th>W-1</th> <th>W1</th> <th>W2</th> <th>W3</th> <th>W4</th> <th>W5</th> <th>W6</th> <th>W7</th> <th>W8</th> <th>W9</th> <th>W10</th> <th>W11</th> <th>W12</th> <th>W13</th> <th>W14</th> <th>W15</th> <th>W16</th> <th>W17</th> <th>W18</th> <th>W19</th> <th>W20</th> <th>W21</th> <th>W22</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Project Plan Template</td> <td></td> <td colspan="23">→</td> </tr> <tr> <td>2</td> <td>Project Start</td> <td></td> <td>→</td> <td colspan="21"></td> </tr> <tr> <td>3</td> <td>Design Support</td> <td></td> <td colspan="21">→</td> </tr> <tr> <td>6</td> <td>Design</td> <td></td> <td>→</td> <td colspan="19"></td> </tr> <tr> <td>11</td> <td>Development</td> <td></td> <td colspan="19">→</td> </tr> <tr> <td>13</td> <td>Test Specification</td> <td></td> <td colspan="19">→</td> </tr> <tr> <td>16</td> <td>Build #1 Creation and Installation</td> <td></td> <td colspan="19">→</td> </tr> <tr> <td>18</td> <td>Dry Run Testing</td> <td></td> <td colspan="19">→</td> </tr> <tr> <td>20</td> <td>Build #2 Creation and Installation</td> <td></td> <td colspan="19">→</td> </tr> <tr> <td>22</td> <td>Main Run Testing</td> <td></td> <td colspan="19">→</td> </tr> <tr> <td>25</td> <td>Participant Testing</td> <td></td> <td colspan="19">→</td> </tr> <tr> <td>27</td> <td>Operational Acceptance Testing</td> <td></td> <td colspan="19">→</td> </tr> <tr> <td>29</td> <td>Deployment</td> <td></td> <td colspan="19">→</td> </tr> </tbody> </table>								ID	Task Name	W-1	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21	W22	1	Project Plan Template		→																							2	Project Start		→																						3	Design Support		→																					6	Design		→																				11	Development		→																			13	Test Specification		→																			16	Build #1 Creation and Installation		→																			18	Dry Run Testing		→																			20	Build #2 Creation and Installation		→																			22	Main Run Testing		→																			25	Participant Testing		→																			27	Operational Acceptance Testing		→																			29	Deployment		→																		
ID	Task Name	W-1	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21	W22																																																																																																																																																																																																																																																																																																																
1	Project Plan Template		→																																																																																																																																																																																																																																																																																																																																					
2	Project Start		→																																																																																																																																																																																																																																																																																																																																					
3	Design Support		→																																																																																																																																																																																																																																																																																																																																					
6	Design		→																																																																																																																																																																																																																																																																																																																																					
11	Development		→																																																																																																																																																																																																																																																																																																																																					
13	Test Specification		→																																																																																																																																																																																																																																																																																																																																					
16	Build #1 Creation and Installation		→																																																																																																																																																																																																																																																																																																																																					
18	Dry Run Testing		→																																																																																																																																																																																																																																																																																																																																					
20	Build #2 Creation and Installation		→																																																																																																																																																																																																																																																																																																																																					
22	Main Run Testing		→																																																																																																																																																																																																																																																																																																																																					
25	Participant Testing		→																																																																																																																																																																																																																																																																																																																																					
27	Operational Acceptance Testing		→																																																																																																																																																																																																																																																																																																																																					
29	Deployment		→																																																																																																																																																																																																																																																																																																																																					
Attachments																																																																																																																																																																																																																																																																																																																																								
P200 Price Presentation v0.3.xls																																																																																																																																																																																																																																																																																																																																								