

P239 Attachment A - list of manifest errors and Balancing Services Adjustment Data interface modification

1 Manifest Errors

There are three categories of manifest error:

1 Issues contained in the P217 legal text, these consist of:

- correcting use of terminology;
- adding defined terms into Annex X-2
- typographical errors; and
- cross referencing errors.

2 Cross references and definitions impacted by the P217 legal text:

- This category of changes includes cross referencing errors and redundant definitions. Whilst they are not errors in the current BSC drafting, they will be introduced into the Code as a result of P217 being implemented.

3 Minor inconsistencies in Code sections

- These changes are not related to P217, but are related to BSC Section T and were identified as part of the P217 legal text reviews.

2 Interface Modification – Balancing Services Adjustment Data Cost/Price issue

Section M

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change	Reason why manifest
1	3	M4.2.5	<p>4.2.5 The value of REJ_{aj} (so far as relating to Metered Volume Reallocation Percentage Data) shall be determined:</p> <p>(a) by reference to the formula in Section T4.5.1 or T4.5.2 by which Credited Energy Volume is determined, but assuming a value of one for the term TLM_{ij} and disregarding the term $QMFR_{iaj}$ in that formula; and</p> <p>(b) by reference to BM Unit Metered Volumes as determined in the Volume Allocation Run (for the Settlement Period j) most recently carried out before the date upon which the Trading Party submits its claim under paragraph 4.3.1(a).</p>	Paragraph T4.5.2 does not exist. The cross-reference should only point to paragraph T4.5.1.

Section Q

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change	Reason why manifest
2	2	Q5.1.14	5.1.14 The Transmission Company may classify an Acceptance which falls within paragraph 5.1.3(b) (other than one within paragraph 5.1.5) as an 'Excluded' Emergency Acceptance <u>Flagged</u> .	As part of P217, the defined term 'Excluded Emergency Acceptance' was superseded by the new term 'Emergency Flagged'.
3	1	Q6.3.2	<p>6.3.2 The Balancing Services Adjustment Data shall comprise the following data in respect of each Settlement Period:</p> <p>(a) the <u>unique sequential</u> number of for each Balancing Services Adjustment Actions;</p> <p>(b) for each such Balancing Services Adjustment Action:</p> <p>(i) the Balancing Services Adjustment Volume;</p>	Paragraph 6.3.2 (a) does not clearly describes the unique sequential number that all Balancing Services Adjustment Actions should have when sent by the Transmission Company to the BSC Systems.

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			<p>(ii) the Balancing Services Adjustment Cost; and the Balancing Services Adjustment Price;</p> <p>(iii) whether the Transmission Company has classified such Balancing Services Adjustment Action as "SO-Flagged";</p> <p>(c) Buy Price Price Adjustment; and</p> <p>(d) Sell Price Price Adjustment.</p> <p><i>Insert new paragraph 6.3.2A to read as follows:</i></p> <p><u>6.3.2A The SAA and the BMRA shall calculate the Balancing Services Adjustment Price in respect of each Settlement Period for each Balancing Services Adjustment Action by dividing the Balancing Services Adjustment Cost by the Balancing Services Adjustment Volume for each respective Settlement Period; and the Balancing Services Adjustment Price shall be deemed to be Balancing Services Adjustment Data for the purposes of the Code.</u></p>	<p>This sequential number is used to identify each Balancing Services Adjustment Action. The wording currently describes the Transmission Company sending the "number" of Balancing Services Adjustment Actions. This could be read as being the total aggregate number of Actions that have been taken, rather than as representing the unique identifying number relating to each action.</p> <p>There are also minor punctuation improvements to paragraph 6.3.2(b).</p> <p>The BSAD Cost/Price issue, as described in the Modification Proposal is shown as a change to 6.3.2(b)(ii), and a new paragraph, 6.3.2A to describe how the BSC systems calculate the Balancing Services Adjustment Price by dividing the Balancing Services Adjustment Cost by the Balancing Services Adjustment Volume.</p>

Section T

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change	Reason why manifest
4	3	T1.7	1.7.1 Where, for the purposes of any Contingency Provisions, a single imbalance price is to apply in relation to any Settlement Period:	Section T1.7 has been amended by

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			<p>(a) paragraph 1.67.1A or paragraph 1.67.2 shall apply;</p> <p>(b) the provisions of paragraphs 4.4.52 and 4.4.63 in relation to the determination of System Buy Price and System Sell Price shall not apply; and</p> <p>(c) for all purposes of the Code, the System Buy Price and the System Sell Price for that Settlement Period shall be the same and shall have the value established in accordance with paragraphs 1.67.1A or (as applicable) 1.67.2 (and shall be deemed to have been determined under paragraph 4.4).</p> <p>1.67.1A Where a single imbalance price is to apply in relation to a relevant Settlement Period for the purposes of Section G3 or Section G4, the Panel shall, subject to the approval of the Authority, determine that single imbalance price in accordance with this paragraph 1.67.1A or, where the Panel, in its opinion, considers this provision unsuitable, in accordance with paragraph 1.67.2. For the purposes of this paragraph 1.67.1A the single imbalance price shall be:</p> <p>(a) subject to paragraphs (b) and (d), the mean of the System Sell Price and the System Buy Price calculated respectively for each set of corresponding Settlement Periods in the 30 whole Settlement Days immediately preceding the Settlement Day on which the Black Start Period (as defined in Section G3.1.3) or Security Period (as defined in the Fuel Security Code) commenced;</p> <p>(b) the Transmission Company shall determine that certain Settlement Periods within the Settlement Days identified under paragraph (a) be excluded from the single imbalance price calculation if those Settlement Periods occur within a Black Start Period or Security Period or if during those Settlement Periods emergency instructions were issued under the Grid Code;</p> <p>(c) where paragraph (b) applies, the Panel shall use the System</p>	<p>Approved Modification P232, but references paragraph 1.6. Paragraph 1.6 has been renumbered as paragraph 1.7 by P217. All references to 1.6 should therefore be amended to 1.7.</p> <p>A reference to the calculation of System Buy Price and System Sell Price has also been renumbered as P217 rennumbers paragraph 4.4.5 to 4.4.2, and paragraph 4.4.6 to 4.4.3.</p> <p>A reference to Clock Change Day has also been capitalised as 'Clock Change Day' is the defined term.</p>

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			<p>Sell Price and the System Buy Price from additional Settlement Periods to achieve a mean of 30 System Sell Prices and System Buy Prices for each corresponding Settlement Period. Such additional Settlement Periods shall be those corresponding Settlement Periods in the Settlement Day immediately preceding the Settlement Days identified in paragraph (a);</p> <p>(d) where a Clock Change Day occurs in the 30 Settlement Days immediately prior to the Black Start Period or Security Period that Settlement Day is to be excluded for the purposes of this paragraph 1.67.1A and a further Settlement Day in accordance with paragraph (e) is to be selected;</p> <p>(e) where paragraph (d) applies, the Panel shall use the System Sell Price and the System Buy Price from an additional Settlement Day (immediately prior to the 30 Settlement Days referred to in paragraph (a)) to achieve a mean of 30 System Sell Prices and System Buy Prices for each corresponding Settlement Period;</p> <p>(f) where a Clock Change Day occurs in a Black Start Period or Security Period:</p> <p>(i) if the Clock Change dDay is short (46 Settlement Periods) the third and fourth Settlement Periods (and thus the single imbalance price calculated in accordance with this paragraph 1.67.1A for the third and fourth Settlement Periods) shall be ignored for that Clock Change Day; and</p> <p>(ii) where the Clock Change Day is long (50 Settlement Periods) the single imbalance price calculated in accordance with this paragraph 1.67.1A for the third and fourth Settlement Periods shall be repeated for the fifth and sixth Settlement Periods of that Clock Change Day. The single imbalance</p>	

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			<p>price for the remaining Settlement Periods for that Clock Change Day will be the single imbalance price calculated in accordance with this paragraph 1.67.1A but (other than for the first and second Settlement Periods) for two Settlement Periods earlier (that is to say the single imbalance price calculated for Settlement Period five will apply to Settlement Period seven on a long Clock Change Day, the single imbalance price calculated for Settlement Period six will apply to Settlement Period eight and so on); and</p> <p>(g) in this paragraph 1.67.1A, save for paragraph (f), "corresponding" means corresponding in sequence (that is to say, the first Settlement Period of a Settlement Day corresponds to the first Settlement Period of another Settlement Day and so on).</p> <p>1.7.2 Subject to paragraph 1.67.1A, where this paragraph applies, the Panel shall determine, in its opinion, subject to the approval of the Authority, what is or would have been the market price for bulk electricity in the relevant Settlement Period; and for these purposes:</p> <p>(a) bulk electricity means electricity traded under contracts which may be performed by the notification of Energy Contract Volumes in accordance with Section P;</p> <p>(b) the Panel may make reference for the purposes of its determination to reported prices and price indices for bulk electricity for any Settlement Period (on any day) which the Panel considers to be comparable, and to equivalent prices and indices relating to periods prior to the Go-Live Date (making appropriate adjustments in respect of any differing treatment of transmission losses and related matters).</p>	
5	3	T3.4A.2	<p>3.4A.2 In respect of each Settlement Period, for each BM Unit, for the Submitted Bid-Offer Pair with the greatest Bid-Offer Pair Number n which is greater</p>	The last sentence in each case should be

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		and T3.4A.4	<p>than zero (if any), the Bid-Offer Upper Range for each spot time in the Settlement Period shall be established as follows:</p> <p>(a) if $FPN_{ij}(t) \geq 0$ and $qA_{ij}^k(t) > FPN_{ij}(t) + \sum^{n+} qBO_{ij}^n(t)$ for any Bid-Offer Acceptance Number k,</p> <p>then:</p> $BOUR_{ij}^n(t) = \text{Max}^k(qA_{ij}^k(t))$ <p>where $\text{Max}^k(qA_{ij}^k(t))$ represents the maximum value of $qA_{ij}^k(t)$ for any value of k for BM Unit i at spot time t in Settlement Period j;</p> <p>(b) in any other case:</p> $BOUR_{ij}^n(t) = FPN_{ij}(t) + \sum^{n+} qBO_{ij}^n(t)$ <p>where \sum^{n+} represents the sum over the range of positive Bid-Offer Pair Numbers 1 to n of Submitted Bid-Offer Pairs.</p> <p>3.4A.4 In respect of each Settlement Period, for each BM Unit, for the Submitted Bid-Offer Pair with the least Bid-Offer Pair Number n which is less than zero (if any), the Bid-Offer Lower Range for each spot time in the Settlement Period shall be established as follows:</p> <p>(a) if $FPN_{ij}(t) \leq 0$ and $qA_{ij}^k(t) < FPN_{ij}(t) + \sum^{n-} qBO_{ij}^n(t)$ for any Bid-Offer Acceptance Number k,</p> <p>then:</p> $BOLR_{ij}^n(t) = \text{Min}^k(qA_{ij}^k(t))$	correctly indented (as shown) so that it covers the two sets of equations above.

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			<p>where $\text{Min}^k(qA_{ij}^k(t))$ represents the minimum value of $qA_{ij}^k(t)$ for any value of k for BM Unit i at spot time t in Settlement Period j;</p> <p>(b) in any other case:</p> $\text{BOLR}_{ij}^n(t) = \text{FPN}_{ij}(t) + \sum^{n^-} q\text{BO}_{ij}^n(t)$ <p>where \sum^{n^-} represents the sum over the range of negative Bid-Offer Pair Numbers -1 to n of Submitted Bid-Offer Pairs.</p>	
6	3	T3.4B.1 (b)	<p>(b) if for any spot time t,</p> <p>(i) $\text{FPN}_{ij}(t) < 0$; and</p> <p>(ii) there exists a Submitted Bid-Offer Pair with a Bid-Offer Pair Number of greater than zero; and</p> <p>(iii) $qA_{ij}^k(t) > \text{FPN}_{ij}(t) + \sum^{n^+} q\text{BO}_{ij}^n(t)$ for any value of k;</p> <p>where \sum^{n^+} represents the sum over the range of positive Bid-Offer Pair Numbers for all Submitted Bid-Offer Pairs;</p>	The penultimate sentence should end "Pairs" rather than "Pair".
7	3	T3.5.1	<p>3.5.1 In respect of each Settlement Period, for each BM Unit, for the Unsubmitted Bid-Offer Pair with a Bid-Offer Pair Number n which is greater than zero (if any), the Bid-Offer Upper Range for all spot times in the Settlement Period shall be established as follows:</p> <p>(a) if there are no Submitted Bid-Offer Pairs with Bid-Offer Pair Numbers greater than zero,</p> <p>then:</p>	<p>In T3.5.1 the last sentence in each case should be correctly indented (as shown) so that it covers the equations above.</p> <p>Also there is a redundant bracket in the last paragraph which should be removed.</p>

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			<p>$BOUR_{ij}^1(t) = \text{Max}\{FPN_{ij}(t), \text{Max}^k(qA_{ij}^k(t))\}$</p> <p>(b) if there are one or more Submitted Bid-Offer Pairs with Bid-Offer Pair Numbers greater than zero,</p> <p>then:</p> <p>(i) if $FPN_{ij}(t) < 0$, then</p> <p>$BOUR_{ij}^n(t) = \text{Max}\{FPN_{ij}(t) + \sum^{ns+} qBO_{ij}^n(t), \text{Max}^k(qA_{ij}^k(t))\}$</p> <p>where \sum^{ns+} represents the sum over the range of positive Bid-Offer Pair Numbers for all Submitted Bid-Offer Pairs;</p> <p>(ii) in any other case, $BOUR_{ij}^n(t) = FPN_{ij}(t) + \sum^{n+} qBO_{ij}^n(t)$</p> <p>where \sum^{n+} represents the sum over the range of positive Bid-Offer Pair Numbers for all Submitted Bid-Offer Pairs and all Unsubmitted Bid-Offer Pairs;</p> <p>where $\text{Max}^k(qA_{ij}^k(t))$ represents the maximum value of $qA_{ij}^k(t)$ for any value of k for BM Unit i at spot time t in Settlement Period j and n is the Bid-Offer Pair Number of the Unsubmitted Bid-Offer Pair.</p>	
8	1	T4.4.2(b)	<p>(b) if the Net Imbalance Volume is equal to zero, or is a negative number, or $\{\sum_i \sum^n \sum^k \{QAO_{ij}^{kn} * TLM_{ij}\} + \sum_{m \neq j}^m QBSAB_m^m\}$ is equal to zero, then:</p>	The 'm' subscript in the summation should be an 'm' superscript as 'm' is a superscript throughout the rest of Section T.
9	1	T4.4.3(b)	<p>(b) if the Net Imbalance Volume is equal to zero, or is a negative number, or $\{\sum_i \sum^n \sum^k \{QAB_{ij}^{kn} * TLM_{ij}\} + \sum_{m \neq j}^m QBSAS_m^m\}$ is</p>	The 'm' subscript in the summation should be an 'm' superscript as 'm' is a

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			equal to zero, then:	superscript throughout the rest of Section T.
10	1	T4.4.3(b)(ii)	Amend approved P217 as follows: (ii) if the Net Imbalance Volume is a positive number and SBP_j as determined in accordance with paragraph 4.4.2(a) would exceed <u>be less than</u> the Market Price, then SSP_j shall instead be equal to SBP_j as determined in accordance with paragraph 4.4.2(a).	The P217 Assessment Report is clear about the intent of this defaulting rule, which is to ensure that the SSP does not exceed the SBP: "2.1.12.3 System Buy Price cannot be lower than System Sell Price." No changes are proposed. If the calculation of the SBP (as either the main or the reverse Energy Imbalance Price) would result in a lower price than the calculation of the SSP, then both SBP and SSP would be set equal to the result of the main Energy Imbalance Price calculation." Unfortunately the Code text for 4.4.3(b)(ii) incorrectly expresses the above as it would lead – if literally applied – to a single imbalance price whenever the market was short ($NIV > 0$). This is definitely not the intention of P217.
11	1	T4.4.4(a)	(a) if the Net Imbalance Volume is a positive number, and $\{\sum_i \sum^n \sum^k \{QAO_{ij}^{kn} * TLM_{ij}\} + \sum^m QBSAB_j^m\}$ is not equal to zero, SSP_j shall be equal to SBP_j as determined in accordance with paragraph 4.4. 52 (a);	As part of the P217 changes paragraph T4.4.5 has been renumbered to Paragraph T4.4.2. There is now no T4.4.5.

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12	1	T4.4.4(c)	(c) if the Net Imbalance Volume is a negative number, and $\{\sum_i \sum^n \sum^k \{QAB_{ij}^{kn} * TLM_{ij}\} + \sum^m QBSAS_j^m\}$ is not equal to zero, SBP_j shall be equal to SSP_j as determined in accordance with paragraph 4.4.63(a);	As part of the P217 changes paragraph T4.4.6 has been renumbered to paragraph T4.4.3. There is now no T4.4.6.

Section T Annex T-1

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change	Reason why manifest
13	1	Annex T-1 1.1(b)	(b) in Part 2, detailed provisions for CADL Flagging, Arbitrage Flagging Tagging , NIV Tagging, determining the Replacement Price, and PAR Tagging for the purposes of Part 1;	Annex T-1 1.1(b) incorrectly refers to the term Arbitrage Flagging. In the P217 solution the defined term is Arbitrage Tagging, not Flagging.
14	1	Annex T-1 1.2	1.2 For the purposes of the Code, in relation to a Settlement Period: (a) in relation to a BM Unit and an Acceptance, an "accepted Offer" means the Period BM Unit Accepted Offer Volume (QAO_{ij}^{kn}), and an "accepted Bid" means the Period BM Unit Total Accepted Bid Volume (QAB_{ij}^{kn}) but excluding Offers and Bids where the value of Period BM Unit Accepted Offer Volume or Period BM Unit Accepted Bid Volume (as the case may be) is zero;	The terms are set out in Table X-2 and Table X-3. In this para 1.2 they have been incorrectly replicated that the words "BM Unit" also appear. These words need to be deleted. The correct terms as in Annexes X-2 and X-3 are as follows: <ul style="list-style-type: none"> QAO_{ij}^{kn} - Period Accepted Offer Volume QAB_{ij}^{kn} - Period Accepted Bid Volume

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15	1	Annex T-1 3.2	3.2 Each accepted Offer and accepted Bid which is CADL- Flagged in accordance with paragraph 12 of Part 2 shall be a First-Stage Flagged System Action.	The correct defined term in Annex X-2 is 'CADL Flagged' not 'CADL-Flagged'. The dash should be replaced with a space.
16	1	Annex T-1 5.2, 6.1	5.2 Each accepted Offer and accepted Bid for which the Acceptance was an Emergency Acceptance classified by the Transmission Company as 'Emergency- Flagged ' shall be a First-Stage Flagged System Action. Amend paragraph 6.1 as follows: 6.1 This paragraph 6 applies in relation to each System Action in the Emergency- Flagged Ranked Sets of System Actions.	The correct term is 'Emergency Flagged', not 'Emergency-Flagged'
17	1	Annex T-1 8.3	8.3 For each First-Stage Flagged System Sell Action (w') in the Ranked Set of System Buy <u>Sell</u> Actions:	The paragraph is referring to the First-Stage Flagged Ranked Set of System Sell Actions. Hence the reference to Buy Actions is incorrect. Ranked System Buy Actions are dealt with in the preceding paragraph 8.2
18	1	Annex T-1 10.1, 10.2(a), 10.3(a)	10.1 This paragraph 10 applies in relation to Second-Stage Flagged System Actions (if any) in the NIV- Tagged Ranked Set of System Actions. 10.2 If NIV is positive: (a) the System Action Price of each Second-Stage Flagged System Buy Action in the NIV- Tagged Ranked Set of System Buy Actions shall be reset to be equal to the Replacement Buy Price	The correct defined term in Annex X-2 is 'NIV Tagged' not 'NIV-Tagged'. The dash should be replaced with a space. 'System Action Buy Price' and 'System Action Sell Price' are not a defined terms. The correct term is 'System Action Price'. Paragraph 10.3(a) uses 'the System Action Price of each Second-Stage

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			<p>determined in accordance with paragraph 15 of Part 2; and for all further purposes of this Annex T and Section T4 the System Action Buy-Price of such System Buy Actions shall be deemed to be the Replacement Buy Price, and such System Buy Actions shall become Unflagged;</p> <p>(b) the System Buy Actions in the Ranked Set shall be re-ranked in order of their System Action Prices as modified under paragraph (a), cheapest first.</p> <p>10.3 If NIV is zero or negative:</p> <p>(a) the System Action Price of each Second-Stage Flagged System Sell Action in the NIV-Tagged Ranked Set of System Sell Actions shall be reset to be equal to the Replacement Sell Price determined in accordance with paragraph 15 of Part 2; and for all further purposes of this Annex T and Section T4 the System Action Sell-Price of such System Sell Actions shall be deemed to be the Replacement Sell Price, and such System Sell Actions shall become Unflagged;</p> <p>(b) the System Sell Actions in the Ranked Set shall be re-ranked in order of their System Action Prices as modified under paragraph (a), most expensive first.</p>	<p>Flagged System Buy Action in the NIV-Tagged Ranked Set of System Sell Actions'.</p> <p>Updating paragraph 10.2(a) to include 'Buy' ensure consistency with paragraph 10.3(a).</p>
19	1	Annex T-1 12.4	<p>12.4 In relation to each accepted Offer and accepted Bid in the Ranked Sets of System Actions, if (for the associated Acceptance k) $CAD^k_i < CADL$, then the accepted Offer or accepted Bid shall be CADL Flagged.</p>	<p>As there is a Ranked Set of Buy Actions (which include Offers) and a Ranked Set of Sell Actions (which include Bids) it would make more sense to have Ranked Sets rather than Ranked Set.</p>

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20	1	Annex T-1 13.2(c)	(c) Then for all v in such #R anked s Set such that:	The defined term is 'Ranked Set' and not 'ranked set'
21	1	Annex T-1 13.2(d)	where \sum^v is the sum over all ranked System Buy Action <u>s</u> up to v,	As Sum v is the sum over potentially multiple System Buy Actions it would make sense to use the plural 'Actions' in this paragraph.
22	1	Annex T-1 14.2(a)	<p>14.2 In respect of each Settlement Period, System Actions in the Classified Ranked Sets will be defined as NIV Tagged in the following way.</p> <p>(a) If:</p> $\sum^{w'} (-QSS^{w'}_j) = 0$ <p>where $\sum^{w'}$ is the sum over System Sell Actions in the Classified Ranked Set; or</p> $\sum^{w*} QSB^{w*}_{ij} = 0$	<p>In the last equation the 'i' subscript should not be included. This is shown in the other equations in paragraph 14 where only the 'j' subscript is required.</p> <p>QSB^{w}_j is defined in paragraph 1.2(b), and does not have an i subscript. QSB^{w}_{ij} (with the i subscript) is not defined.</p>
23	1	Annex T-1 14.2(b) and 14.3(d)	<p>(b) If:</p> $\sum^{w'} (-QSS^{w'}_j) \leq \sum^{w*} QSB^{w*}_j$ <p>where $\sum^{w'}$ is the sum over the System BuySell Actions and \sum^{w*} is the sum over the System SellBuy Actions in the Classified Ranked Sets,</p> <p>then all the System Sell Actions (for all values of w') in the Ranked Set of System Sell Actions will be defined as NIV Tagged.</p>	Sum of w' is summed over System Sell Actions (QSS) and the sum of w* is summed over System Buy Actions (QSB).

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			<p>(d) If:</p> $\Sigma^{w'} (-QSS^{w'}_j) > \Sigma^{w*} QSB^{w*}_j$ <p>where $\Sigma^{w'}$ is the sum over the System BuySell Actions and Σ^{w*} is the sum over the System SellBuy Actions,</p> <p>then all the System Buy Actions (for all values of w^*) in the Ranked Set of System Buy Actions will be defined as NIV Tagged.</p>	
24	1	Annex T-1 14.2(e)	<p>(e) Since $\Sigma^{w'} (-QSS^{w'}_j) > \Sigma^{w*} QSB^{w*}_j$ there must exist a number e and a number ϕ (which may be a fraction or zero) for which</p> $\Sigma^{w*} QSB^{w*}_j = \Sigma^{w' v > e} (-QSS^{w'v}_j) + \phi * -QSS^{w'e}_j$ <p>where Σ^{w*} is the sum over all System Buy Actions and $\Sigma^{w' v > e}$ is the sum over those System BuySell Actions for which v is greater than e.</p>	The $\Sigma^{w' v > e}$ is a sum over QSS which are System Sell Actions.
25	1	Annex T-1 14.2(f)(ii)	$\delta * (\sum^{w'_r} QSB^{w'_r}_j = \sum^{w'_r} QSB^{w'_r}_j$ <p>or (as the case may be)</p> $\delta * (\sum^{w'_r} QSS^{w'_r}_j = \sum^{w'_r} QSS^{w'_r}_j$	The opening brackets at the start of each equation should be removed (shown here as struck through). They are not matched with closing brackets, and hence meaningless.

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26	1	Annex T-1 15.3(b)(i) and 15.5(b)(i)	<p>15.3(b) if $\Sigma^w \text{QSB}_j^w > \text{RPAR}$:</p> <p>(i) the Unflagged System Buy Actions in the Classified<u>NIV Tagged</u> Ranked Set shall be ranked in price order, lowest priced first;</p> <p>15.5(b) if $\Sigma^w -\text{QSS}_j^w > \text{RPAR}$:</p> <p>(i) the Unflagged System Sell Actions in the Classified<u>NIV Tagged</u> Ranked Set shall be ranked in price order, highest priced first;</p>	The Replacement Price process occurs following NIV Tagging. Hence the process should occur on the NIV Tagged Ranked Set.
27	1	Annex T-1 15.3(b)(iii)) 15.5(b)(iii))	<p>15.3(b)(iii) each of the System Buy Actions numbered f+1 or higher in the RRanked sSet of Unflagged System Buy Actions for which this is true will be defined as Qualifying. If f is a fraction rather than zero, then the fraction (f) of the System Buy Action numbered f will be defined as Qualifying.</p> <p>15.5(b)(iii) each of the System Sell Actions numbered f+1 or higher in the Replacement PricedRanked Set for which this is true will be defined as Qualifying. If ϕ is a fraction rather than zero, then the fraction (ϕ) of the System Sell Action numbered f will be defined as Qualifying.</p>	<p>Paragraph 15.3(b)(iii) uses the term 'ranked set'. The correct defined term is 'Ranked Set'.</p> <p>Paragraph 15.5(b)(iii) uses the term 'Replacement Price Ranked Set'. This is incorrect as the 'Replacement Price Ranked Set' can only be created once the Replacement Price process is completed. Hence this should also be updated to read 'Ranked Set'</p>
28	1	Annex T-1 16.1(b) and 16.1(d)	<p>16.1(b) Subject to paragraph (fe), each System Buy Action numbered 1 to f-1 in the Replacement-Priced Ranked Set for which this is true will be defined as PAR Tagged. If ϕ is a fraction rather than zero, then the fraction (1-ϕ) of the System Buy Action numbered f will be defined as PAR Tagged.</p> <p>16.1(d) Subject to paragraph (fe), each of the System Sell Actions numbered 1 to f-1 in the Replacement-Priced Ranked Set for which this is true will be defined as PAR Tagged. If ϕ is a fraction rather than zero, then the fraction (1-ϕ) of the System Seller er Action numbered f will be defined as PAR Tagged.</p>	<p>Paragraph 16.1(f) does not exist. The correct cross-reference is 16.1(e).</p> <p>Paragraph 16.1(d) has a typographical error 'System Seller Action' should be 'System Sell Action'.</p>

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
29	1	Annex T-1 Part 3	Term	Acronym	Basis of determination		<p>Typographical error - NIV Tagging is spelt incorrectly in two definitions – i.e. NIV "Taging"</p> <p>And the correct term for "Replacement Pricing" is incorrectly spelt "Replacement-pricing"</p>
			Period BM Unit Total Tagged Accepted Offer Volume	QATO ⁿ _{ij}	The amount (if any) of QAO ⁿ _{ij} which was excluded from the Ranked Set of System Buy Actions by De Minimis Tagging, Arbitrage Tagging, NIV Tagging and/or PAR Tagging under paragraphs 6, 7, 9 or 11 of Part 1.		
			Period BM Unit Total Repriced Accepted Offer Volume	QARO ⁿ _{ij}	The amount (if any) of QAO ⁿ _{ij} which was not Tagged and which was Second-Stage Flagged in the NIV Tagged Ranked Set (and accordingly subject to Replacement- p Pricing under paragraph 10.2(a) of Part 1).		
			Period BM Unit Total Tagged Accepted Bid Volume	QATB ⁿ _{ij}	The amount (if any) of QAB ⁿ _{ij} which was excluded from the Ranked Set of System Sell Actions by De Minimis Tagging, Arbitrage Tagging, NIV Tagging and/or PAR Tagging under paragraphs 6, 7, 9 or 11 of Part 1.		
			Period BM Unit Total Repriced Accepted Bid Volume	QARB ⁿ _{ij}	The amount (if any) of QAB ⁿ _{ij} which was not Tagged and which was Second-Stage Flagged in the NIV Tagged Ranked Set (and accordingly subject to Replacement- p Pricing under paragraph 10.3(a) of Part 1).		

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
			Period BM Unit Total Originally-priced Accepted Bid Volume	QAOPB ⁿ _{ij}	The amount (if any) of QAB _{nij} which was not Tagged and which was Unflagged in the NIV Tagged Ranked Set (and accordingly not subject to Replacement- p Pricing under paragraph 10.3(a) of Part 1).		
30	1	Annex T-1 Part 3	In the table above \sum_i represents the sum over all BM Units, \sum^n represents the sum over all Bid-Offer Pair Numbers for a BM Unit, and \sum^{nm} represents the sum over all Balancing System Services Adjustment Actions.				Balancing Services Adjustment Actions is the defined term and the correct super script for Balancing Services Adjustment Actions is 'm', not 'n'.

Section V

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
31	2	V2.5.1(a) (ii), V2.5.2(b)	<p>2.5.1(a)(ii) each Market Index Data Provider, at such times and with such frequency as provided in Section T1.5A6;</p> <p>2.5.2 (b) from each Market Index Data Provider (as provided in Section T) the data items specified in Section T1.5A6 as being provided to the BMRA;</p>				P217 renumbers paragraph T paragraph 1.5A as 1.6.
32	3, 2	V2.6.4, V2.6.5	2.6.4	<p>The BMRA shall calculate:</p> <p>(a) Indicative Period BM Unit Total Accepted Bid Volume (IQABⁿ_{ij});and;</p>			P217 added IQAO ^{kn} _{ij} and IQAB ^{kn} _{ij} into Section V, Annex V-1, Table 1. These terms are therefore now present in

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change	Reason why manifest
			<p>(b) Indicative Period BM Unit Total Accepted Offer Volume (IQAOⁿ_{ij});</p> <p>(c) <u>Indicative Period Accepted Bid Volume (IQAB^{kn}_{ij}); and</u></p> <p>(d) <u>Indicative Period Accepted Offer Volume (IQAO^{kn}_{ij}).</u></p> <p>in accordance with the rules in Section T2 and Section T3 save that in each case the terms IQABⁿ_{ij}, and IQAOⁿ_{ij}, <u>IQAB^{kn}_{ij} and IQAO^{kn}_{ij}</u> shall (for the purposes of this paragraph 2.6 only) be substituted for the terms QABⁿ_{ij}, and QAOⁿ_{ij}, <u>QAB^{kn}_{ij} and QAO^{kn}_{ij}</u> in Section T.</p> <p>2.6.5 The BMRA shall calculate:</p> <p>(a) the Indicative Net Imbalance Volume (INIV_j);</p> <p>(b) the Indicative System Buy Price (ISBP_j); and</p> <p>(c) the Indicative System Sell Price (ISSP_j)</p> <p>in accordance with the rules in Section T4.4 <u>Annex T-1 paragraph 14</u> save that in each case the terms ETLMO⁺, ETLMO⁻, the Indicative Balancing Services Adjustment Data and (where applicable) other Indicative terms shall (for the purposes of this paragraph 2.6 only) be substituted for the terms TLMO⁺, TLMO⁻, the Balancing Services Adjustment Data and other relevant terms in Section T.</p>	<p>addition to the closely related terms IQABⁿ_{ij} and IQAOⁿ_{ij}. While it is implicit that, of necessity, the BMRA must calculate these items in order to publish them on the BMRS, this could usefully be made explicit.</p> <p>This could be addressed in V2.6.4 (which already defines IQABⁿ_{ij} and IQAOⁿ_{ij}).</p> <p>Also, V2.6.4 only needs to reference Section T3 as Section T2 does not related to the calculation of the terms QABⁿ_{ij} and QAOⁿ_{ij}. Therefore the reference to Section T2 is redundant.</p> <p>For paragraph V2.6.5, the NIV calculation is no longer held in T4.4 but is now in Annex T-1 paragraph 14.</p>

Section X Annex X-1

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change	Reason why manifest
33	2	Annex X-1	<p>Following terms are redundant as a result of P217 and should be entirely deleted from Annex X-1:</p> <ul style="list-style-type: none"> De Minimis Accepted Bids 	<p>The following terms will be redundant with the implementation of P217.</p> <p>For the full deletion see the P239</p>

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change	Reason why manifest
			<ul style="list-style-type: none"> • De Minimis Accepted Offers • Non-De Minimis Accepted Bids • Non-De Minimis Accepted Offers 	Proposed Modification legal text.
34	2	Annex X-1	<p>"Market Index Data": means that the data to be provided by the Market Index Data Provider(s) in accordance with the Market Index Definition Statement or, in relation to a particular Market Index Data Provider, the data to be so provided by that Market Index Data Provider, in each case as set out in Section T1.5 and T1.5A6;</p>	P217 renumbers paragraph T so that T1.5A is renumbered to be T1.6

Section X Annex X-2

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
35	3	Annex X-2 Table X-2	Defined Term	Acronym	Units	Definition/Explanatory Text	Accepted Bid Volume and Accepted Offer Volume have the wrong Section T cross-reference. The cross-references should be swapped.
			Accepted Bid Volume	$qAB_{ij}^{kn}(t)$	MW	<p>The quantity established in accordance with Section T3.7.42.</p> <p><i>The Accepted Bid Volume is the quantity of Bid n being the negative part of the Accepted Bid-Offer Volume accepted as a result of Bid-Offer Acceptance k from BM Unit i at spot times t within</i></p>	

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
						Settlement Period j .	
			Accepted Offer Volume	$qAO_{ij}^{kn}(t)$	MW	<p>The quantity established in accordance with Section T3.7.21.</p> <p><i>The Accepted Offer Volume is the quantity of Offer n being the positive part of the Accepted Bid-Offer Volume accepted as a result of Bid-Offer Acceptance k from BM Unit i at spot times t within Settlement Period j.</i></p>	
36	1	Annex X-2 Table X-2	Defined Term	Acronym	Units	Definition/Explanatory Text	The correct cross-reference in Annex T-1 is paragraph 7.
			Arbitrage Tagged			Arbitrage Tagged as provided in paragraph 67 of Part 1 of Annex T-1.	
37	1	Annex X-2 Table X-2	Defined Term	Acronym	Units	Definition/Explanatory Text	To modifying the BSAD interface the definition of the Balancing Services Adjustment Cost is added, and the definition of the Balancing Services Adjustment Price is amended.
			<u>Balancing Services Adjustment Cost</u>		£	<u>The amount sent by the Transmission Company as 'Balancing Services Adjustment Cost' in respect of a Balancing Services Adjustment Action in accordance with Section Q6.3.</u>	
			Balancing Services Adjustment Price	$BSAP_j^m$	£/MWh	The amount sent <u>calculated</u> by the Transmission Company <u>SAA and the BMRA</u> as 'Balancing Services Adjustment Price' in respect of a Balancing Services Adjustment Action in accordance with Section Q6.3.	
38	1	Annex X-2	Defined Term	Acronym	Units	Definition/Explanatory Text	P217 renumbers the paragraph that

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
		Table X-2	Price Average R Reference Volume	PAR	MWh	The price volume determined in accordance with Section T1. 9.1 <u>10.1</u> .	describes PAR to T1.10.1. Also the word "Reference" (in the definition) is capitalised in T1.10.1 and should be capitalised in Annex X-2.
39	1	Annex X-2	Defined Term	Acronym	Units	Definition/Explanatory Text	P217 numbers the paragraph that describes RPAR as T1.11.1
		Table X-2	Replacement Price Average Reference Volume	RPAR		Has the meaning given to that term in Section T1. 40 <u>11.1</u> .	
40	1	Annex X-2 Table X-2	Defined Term	Acronym	Units	Definition/Explanatory Text	The following terms were introduced by P217 and should, for the avoidance of doubt, be defined in Annex X-2 Table X-2. The related acronyms should also be added into Table X-3.
			<u>Replacement Buy Price</u>	<u>RBP_i</u>	<u>£/MWh</u>	<u>The Replacement Buy Price determined in accordance with paragraph 15 of Part 2 of Annex T-1.</u>	
			<u>Replacement Price</u>	<u>RP_i</u>	<u>£/MWh</u>	<u>Means either the Replacement Buy Price or the Replacement Sell Price as determined in accordance with paragraph 15 of Part 2 of Annex T-1, and Replacement Pricing shall have the same meaning.</u>	
			<u>Replacement Sell Price</u>	<u>RSP_i</u>	<u>£/MWh</u>	<u>The Replacement Sell Price determined in accordance with paragraph 15 of Part 2 of Annex T-1.</u>	
41	3	Annex X-2 Table X-2	Defined Term	Acronym	Units	Definition/Explanatory Text	A clarification that 'paragraph 4.3' is in Annex X-2

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
			Settlement Period	j		A period of 30 minutes beginning on the hour or the half-hour and in accordance with paragraph 4.3 <u>of this Annex X-2</u> .	
42	1	Annex X-2 Table X-2	Defined Term	Acronym	Units	Definition/Explanatory Text	The correct defined term is 'SO-Flagged Ranked Set' (including the hyphen).
			SO-SO -Flagged Ranked Set			One of the SO-SO -Flagged Ranked Sets as provided in paragraph 4 of Part 1 of Annex T-1.	
43	2	Annex X-2 Table X-2	Defined Term	Acronym	Units	Definition/Explanatory Text	The following terms will be redundant with the implementation of P217 and should be deleted from Annex X-2 Table X-2.
			Arbitrage Accepted Bids			Has the meaning given to that term in Annex T-1. Arbitrage Accepted Bids are those accepted Bids (or parts thereof) in Settlement Period j, for which the Bid Price is greater than or equal to the Offer Price of one or more accepted Offers in the same Settlement Period. The quantity of Arbitrage Accepted Bids tagged as such in a particular Settlement Period is limited by the aggregate quantity of accepted Offers for which the Offer Price is less than equal to the Bid Price of accepted Bids.	
			Arbitrage Accepted Offers			Has the meaning given to that term in Annex T-1. Arbitrage Accepted Offers are those accepted Offers (or parts thereof) in	

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
						<i>Settlement Period j, for which the Offer Price is less than or equal to the Bid Price of one or more accepted Bids in the same Settlement Period. The quantity of Arbitrage Accepted Offers tagged as such in a particular Settlement Period is limited by the aggregate quantity of accepted Bids for which the Bid Price is greater than or equal to the Offer Price of accepted Offers.</i>	
			Excluded Emergency Acceptance			An Acceptance which has been classified by the Transmission Company as 'Excluded' pursuant to Section Q5.1.14. An Excluded Emergency Acceptance is treated as unpriced for the purposes of Section T3.9A.	
			NIV Tagged Bid			Has the meaning given to that term in Annex T 1.	
			NIV Tagged EBVA	NTEBVA_j	MWh	Has the meaning given to that term in Annex T 1.	
			NIV Tagged ESVA	NTESVA_j	MWh	Has the meaning given to that term in Annex T 1.	
			NIV Tagged Offer			Has the meaning given to that term in Annex T 1.	

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
			NIV Tagged SBVA	TSBVA_j	MWh	Has the meaning given to that term in Annex T-1.	
			NIV Tagged SSVA	TSSVA_j	MWh	Has the meaning given to that term in Annex T-1.	
			NIV Tagged System Total Un-priced Bid Volume	TTQUAB_j	MWh	Has the meaning given to that term in Annex T-1.	
			NIV Tagged System Total Un-priced Offer Volume	TTQUAO_j	MWh	Has the meaning given to that term in Annex T-1.	
			NIV Untagged EBVA	NUEBVA_j	MWh	Has the meaning given to that term in Annex T-1.	
			NIV Untagged ESVA	NUESVA_j	MWh	Has the meaning given to that term in Annex T-1.	
			Non-arbitrage Bids			Has the meaning given to that term in Annex T-1.	
			Non-arbitrage Offers			Has the meaning given to that term in Annex T-1.	
			PAR Tagged Bid			Has the meaning given to that term in Annex T-1	
			PAR Tagged	PTEBVA_j	MWh	Has the meaning given to that term in	

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
			EBVA			Annex T-1	
			PAR Tagged ESVA	PTESVA_{ij}	MWh	Has the meaning given to that term in Annex T-1	
			PAR Tagged Offer			Has the meaning given to that term in Annex T-1	
			Period BM Unit Total Priced Accepted Bid Volume	QAPBⁿ_{ij}	MWh	The quantity determined in accordance with Section T3.9A. The period BM Unit Total Priced Accepted Bid Volume is the quantity of Bid n, accepted in respect of BM Unit i, in Settlement Period j, as a result of all Acceptances that may contribute to the determination of System Sell Price.	
			Period BM Unit Total Priced Accepted Offer Volume	QAPOⁿ_{ij}	MWh	The quantity determined in accordance with Section T3.9A. The period BM Unit Total Priced Accepted Offer Volume is the quantity of Offer n, accepted in respect of BM Unit i, in Settlement Period j, as a result of all Acceptances that may contribute to the determination of System Buy Price.	
			Period Priced Accepted Bid Volume	QAPB^{kn}_{ij}	MWh	The quantity determined in accordance with Section T3.8A. The Period Priced Accepted Bid Volume is the volume of Bid n, accepted in respect of BM Unit I, in Settlement	

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change				Reason why manifest
						<i>Period j, as a result of Acceptance k that may contribute to the determination of System Sell Price.</i>	
			Period Priced Accepted Offer Volume	$QAPO_{ij}^{kn}$	MWh	The quantity determined in accordance with Section T3.8A. The Period Priced Accepted Offer Volume is the volume of Offer n, accepted in respect of BM Unit I, in Settlement Period j, as a result of Acceptance k that may contribute to the determination of System Buy Price.	
			Untagged EBCA	$UEBCA_j$	£	Has the meaning given to that term in Annex T-1	
			Untagged EBVA	$UEBVA_j$	MWh	Has the meaning given to that term in Annex T-1	
			Untagged ESCA	$UESCA_j$	£	Has the meaning given to that term in Annex T-1	
			Untagged ESVA	$UESVA_j$	MWh	Has the meaning given to that term in Annex T-1	
44	3	Annex X-2 Table X-3	$CAD_{k,i}^k$	Minutes	Continuous Acceptance Duration		In Section T the Continuous Acceptance Duration acronym is CAD_i^k . The same acronym is used in Table X-2. However, in Table X-3 it is incorrectly shown as k being a subscript and not a superscript.

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change			Reason why manifest
45	2	Annex X-2 Table X-3	Acronym	Units	Corresponding Defined Term or Expression	The following terms will be redundant with the implementation of P217 and should be deleted from Annex X-2 Table X-3.
			PTEBVA_j	MWh	PAR Tagged EBVA	
			PTESVA_j	MWh	PAR Tagged ESVA	
			QAPB_{knij}	MWh	Period Priced Accepted Bid Volume	
			QAPB_{nij}	MWh	Period BM Unit Total Priced Accepted Bid Volume	
			QAPO_{knij}	MWh	Period Priced Accepted Offer Volume	
			QAPO_{nij}	MWh	Period BM Unit Total Priced Accepted Offer Volume	
			TSBVA_j	MWh	NIV Tagged SBVA	
			TSSVA_j	MWh	NIV Tagged SSVA	
			TTQUAB_j	MWh	NIV Tagged System Total Un-priced Bid Volume	
			TTQUAO_j	MWh	NIV Tagged System Total Un-priced Offer Volume	
			UEBCA_j	£	NIV Untagged EBCA	
			UEBVA_j	MWh	NIV Untagged EBVA	
			UESCA_j	£	NIV Untagged ESCA	
			UESVA_j	MWh	NIV Untagged ESVA	

Ref.	Category (1, 2 or 3)	Position in BSC	Proposed change			Reason why manifest
46	2	Annex X-2 Table X-3	Acronym	Units	Corresponding Defined Term or Expression	The following terms will be introduced by P217 and should be add to Annex X-2 Table X-3 for clarity.
			<u>RBP_i</u>	<u>£/MWh</u>	<u>Replacement Buy Price</u>	
			<u>RP_i</u>	<u>£/MWh</u>	<u>Replacement Price</u>	
			<u>RSP_i</u>	<u>£/MWh</u>	<u>Replacement Sell Price</u>	