CORRECT APPORTIONMENT OF NDM ERROR - ENERGY

MODIFICATION 228A

TPD Section E

Add New Section E7.9 as follows:

7.9   RBD Energy Adjustment

7.9.1   For the purposes of this Section 7.9:

(a)   **"RBD Energy Source"** means each of the items named in the first column of Table E1;

(b)   **"SPC Class"** means the following classes of Supply Point Component and (in each case) CSEP Equivalent Points:

(i)   Supply Point Components comprised in Smaller Supply Points (SSP);

(ii)   NDM Supply Point Component comprised in Larger Supply Points (LSP NDM);

(iii)   DM Supply Point Component comprised in Larger Supply Points (LSP DM);

(c)   for each RBD Energy Source and each SPC Class, subject to paragraph 7.9.2, the **"RBD Error Energy"** ($RBDEE_{SPC}$) is the amount in GWh specified in the second, third or (as applicable) fourth column of Table E1; for each RBD Energy Source, the RBD Error Energy for Supply Point Components comprised in Smaller Supply Points is a negative amount equal in magnitude to the sum of the RBD Error Energy for DM and NDM Supply Point Components comprised in Larger Supply Points;

(d)   **"CSEP Equivalent Points"** means System Exit Points treated as comprised (as contemplated in Section A3.3.5 and as provided in the relevant CSEP Network Exit Provisions) in an Unmetered Connected System Exit Point which relate to points of supply (to premises connected to the relevant Connected Offtake System) equivalent to Supply Point Components of a given class;

(e)   references to a User's CSEP Equivalent Points are to the CSEP Equivalent Points for which the User is responsible in accordance with the relevant CSEP Network Exit Provisions;

(f)   references to Larger Supply Points exclude NTS Supply Points and Special Metering Supply Points.

7.9.2   For each Gas Year (Y), commencing with Gas Year [   ], for SCP Classes LSP NDM and SSP, the RBD Error Energy for the RBD Energy Sources named Genuine RBD and Theft and Unreported Open Meter By-pass Valves shall be determined as follows:

(a)   the proposed RBD Error Energy ($PRBDEE^{GR}$) for SPC Class LSP NDM for Genuine RBD shall be calculated as follows:

$$PRBDEE^{GR} = (AQL^{Y} / \ AQN^{Y}) - (AQL^{Y-1} / AQN^{Y-1}) * AQN^{Y}$$

where

AQL^{Y} is AQL for Gas Year Y

AQN^Y is AQN for Gas Year Y

AQL^{Y-1} is AQL for Gas Year Y-1

AQN^{Y-1} is AQN for Gas Year Y-1

where for a Gas Year AQL and AQN respectively are the aggregate (for all Users and all LDZs) of the Annual Quantities for NDM Supply Point Components comprised in Larger Supply Points and for all NDM Supply Point Components, and in each case the equivalent quantities for equivalent CSEP Equivalent Points;

(and for the avoidance of doubt the value of $PRBDEE^{GR}$ for a Gas Year may be positive or negative);

(b)　National Grid NTS shall calculate the value of $PRBDEE^{GR}$ for each Gas Year by no later than [　　] and submit such value to the UNC Committee for approval;

(c)　if the UNC Committee approves the value of $PRBDEE^{GR}$ by no later than [　　], then:

　　(i)　for SPC Class LSP NDM, the value of RBDEE ($RBDEE_{LSPNDM}$):

　　　　(aa)　for the RBD Energy Source named Genuine RBD shall be equal to $PRBDEE^{GR}$;

　　　　(bb)　for the RBD Energy Source named Theft and Unreported Open Meter By-pass Valves shall be calculated as (TRBDEE – ARBDEE)

　　　　　　where

　　　　　　TRBDEE is the Total RBDEE for SPC Class LSP NDM as set out in Table E1;

　　　　　　ARBDEE is the sum of the values for Gas Year Y of RBDEE (including pursuant to paragraph (aa)) for SPC Class LSP NDM for each RBD Energy Source other than Theft and Unreported Open Meter By-pass Valves;

　　(ii)　for SPC Class SSP, the value of RBDEE for each such RBD Energy Source shall be ($- RBDEE_{LSPNDM}$);

(d)　if the UNC Committee does not approve the value of $PRBDEE^{GR}$ by no later than [　　], then the values of RBDEE for such RBD Energy Sources shall be the same as those applicable for Gas Year Y-1.

7.9.2　For the purposes of this Section 7.9, for each User, Reconciliation Billing Period and SPC Class:

(a)　the "**User SPC Aggregate AQ**" ($USAAQ_{SPC}$) is the amount calculated as follows:

$$USAAQ_{SPC} \; = \; \Sigma_d \, \Sigma_r \, AQ_{rd}$$

where

Σ_d　　is the sum over Days in the Reconciliation Billing Period;

Σ_r　　is the sum over the User's Registered Supply Point Components and CSEP Equivalent Points of the relevant SPC Class in all LDZs on Day d;

and where for each such Supply Point Component or CSEP Equivalent Point and Day, AQrd is the Annual Quantity of such Supply Point Component or the equivalent quantity determined pursuant to the relevant CSEP Network Exit Provisions;

(b) the "**User SPC Aggregate AQ Proportion**" ($USAAQP_{SPC}$) is the decimal factor calculated as follows:

$$USAAQP_{SPC} = USAAQ_{SPC} / \Sigma_U\ USAAQ_{SPC}$$

where Σ_U is the sum over all Users

7.9.3 For the purposes of this Section 7.9, for each User and Reconciliation Billing Period:

(a) the "**User RBD Error Energy**" (URBDEE) is the amount in GWh calculated as follows:

$$URBDEE = \Sigma_{SPC} (\Sigma_{RES}\ RBDEE_{SPC} * USAAQP_{SPC}) / 12$$

where

Σ_{SPC} is the sum over SPC Class

Σ_{RES} is the sum over RBD Energy Source

and where for each RBD Energy Source

$RBDEE_{SPC}$ is the RBD Error Energy

and where for each SPC Class

$USAAQP_{SPC}$ is User SPC Aggregate AQ Proportion

(b) the "**User RBD Error Energy Amount**" (UREEA) is the amount calculated as follows:

$$UREEA = URBDEE * TDSAP$$

where

TDSAP is the arithmetic average of the values of System Average Price for each of the thirty (30) Days starting with and including the first day of the Reconciliation Billing Period.

7.9.4 The User RBD Error Energy Amount shall be payable, by way of adjustment in respect of the aggregate User Aggregate Reconciliation Clearing Values:

(a) by the User to National Grid NTS, where such amount is [positive];

(a) by National Grid NTS to the User, where such amount is [negative];

and shall be invoiced, by way of Ad-hoc Invoice at the same time or as soon as practicable after the Invoice in respect of the Aggregate NDM Reconciliation, and payable in accordance with Section S.

TPD Section F

Insert in Section F 4.5.3(a)(ii), after 'Reconciliation Clearing Charges (payable to National Grid NTS)':

"User RBD Error Energy Amounts (payable to National Grid NTS)"

Insert in Section F 4.5.3(b)(ii), after 'Reconciliation Clearing Charges (payable to National Grid NTS)':

"User RBD Error Energy Amounts payable to National Grid NTS"

Table E1

RBD Energy Source	NDM Supply Point Components in Larger Supply Points (A)	DM Supply Point Components in Larger Supply Points (B)	Supply Point Components in Smaller Supply Points (C)*
Genuine RBD	[xxx]**	0	– [xxx]**
Late Confirmations, Unregistered and Orphaned Sites	211.83	5.72	– 217.55
Late Confirmations, Unregistered and Orphaned Sites – IGTs	68.70	0	– 68.70
Shrinkage Contribution	0.009	0.005	– 0.014
Theft and Unreported Open Meter By-pass Valves	[yyy]**	0	– [yyy]**
Total	[zzz]	5.725	[www]**

* C = – (A + B)

** [*First year's values to be inserted.*] Subject to annual change in accordance with Section E7.9.2.