

### **Technical Rule no. 22 rev. 01 MPE**

(pursuant to Article 4 of the Integrated Text of the Electricity Market Rules, approved by the Decree of the Minister of Productive Activities of 19 December 2003, as subsequently amended and supplemented)

<b>Title</b>	<b>Verification of validity and adequacy of requests for registration of nominations, determination and communication of nominations</b>
Reference Legislation	Article 61, para. 61.2, Article 62, and Article 64, para 64.1, Integrated Text of the Electricity Market Rules

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## 1. Foreword

Article 61, paragraph 61.2 of the Integrated Text of the Electricity Market Rules (hereinafter “ME Rules”) provides that if the request for registration of a PN nomination is not valid, GME, according to the procedures defined in the Technical Rules, shall communicate the result to the Market Participant, indicating the reason for the negative outcome of this verification.

Article 62 of the ME Rules provides that, within the terms and according to the procedures defined in the Technical Rules, GME shall check the adequacy of the registrations of PN nominations referred to in Article 58 in the following way:

- a) for each unit: it shall ensure that the injection or withdrawal nomination complies with the step-up and step-down margins of the unit referred to in the previous Article 60. If this check gives a negative result, GME shall adjust the quantity being registered, decreasing or increasing it in line with the margins of the unit<sup>1</sup>;
- b) for the set of all the physical zonal injection portfolios consisting of units of the same BRP and having an overall commercial sell position: in the first place, it shall ensure that the sum of injection nominations is higher than the sum of withdrawal nominations; and, in the second place, it shall ensure that the sum of injection nominations, decreased by the sum of withdrawal nominations, is not higher than the commercial sell position. If this check gives a negative result, GME shall adjust the quantities being registered, in accordance with the priority criteria defined in the Dispatching Rules and with the Technical Rules, until reaching the commercial sell position, while complying with the margins of each unit;
- c) for the set of all the physical zonal injection portfolios consisting of units of the same BRP and having an overall commercial buy position: in the first place, it shall ensure that the sum of withdrawal nominations is higher than the sum of injection nominations; and, in the second place, it shall ensure that the sum of withdrawal nominations, decreased by the sum of injection nominations, is not higher than the commercial buy position. If this check gives a negative result, GME shall adjust the quantities being registered, in accordance with the priority criteria defined in the Dispatching Rules and with the Technical Rules, until reaching the commercial buy position, while complying with the margins of each unit;
- d) for the set of all the physical zonal withdrawal portfolios consisting of units of the same BRP and having an overall commercial buy position: it shall ensure that the sum of withdrawal nominations on such units is higher than the sum of injection nominations; and it will ensure that the sum of

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<sup>1</sup> Under Article 60 of the ME Rules, GME shall acquire from Terna, for each imbalance settlement period, the data concerning the step-up and step-down margins, as well as the feasibility intervals defined by Terna that contribute to determining such margins, for the purpose of registering PN nominations for each unit.

withdrawal nominations, decreased by the sum of injection nominations, is not higher than the commercial buy position. If this check gives a negative result, GME shall adjust the quantities being registered, in accordance with the priority criteria defined in the Dispatching Rules and with the Technical Rules, until reaching the commercial buy position, while complying with the margins of each unit;

- e) it shall ensure that the additional criteria established in the Technical Rules, including any feasibility intervals defined by Terna, are satisfied.

After carrying out the above verifications, under Article 64, para. 64.1 of the ME Rules, GME shall register residual nominations, for each imbalance settlement period and each bidding zone, in respect of the injection or withdrawal units communicated by Terna under Article 24 of the same Rules for each BRP, under the criteria defined in this article and in the Technical Rules.

It is worth pointing out that, based both on the above and on ARERA's Resolution 304/2024/R/eel, the adequacy checks of nominations will concern injection units only<sup>2</sup>, unless otherwise specified in subsequent provisions.

## 2. Adequacy checks of nominations

The adequacy checks of nominations are carried out at the times indicated in Technical Rule no. 03 MPE.

Additionally, the checks and corrections are made separately for each imbalance settlement period.

This paragraph describes the criteria under which the adequacy checks of nominations are carried out.

For the purposes of this Technical Rule, consider the following terms:

- $N_i^{\frac{1}{4}h}$  = nomination relating to the i-th Unit and for the quarter-hour  $\frac{1}{4} h$ ;

with  $N_i^{1/4h} > 0$  for injection nominations;  $N_i^{1/4h} < 0$  for withdrawal nominations;  $N_i^{\frac{1}{4}h} = 0$  for null nominations<sup>3</sup>.

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<sup>2</sup> For consumption units, the nomination made by GME will be always equal to the commercial position resulting from the markets, and it will be registered even if it is not consistent with the margins communicated and possibly changed by the BRP, or its delegated agent, between the MGP and the MI.

<sup>3</sup> It applies to all units for which no nomination has been registered and for which the BRP and the BSP do not coincide. Indeed, if the BRP and BSP coincide, i.e. if the unit to be nominated is not enabled to participate in the MSD, an implicit nomination will be assumed. In other terms, GME will automatically carry out the injection or withdrawal nomination on the

- $PZ_i$  = zonal portfolio consisting of the individual Unit  $U_i$ ;
- $M_{i, \frac{1}{4}h}^+$  = step-up margin of  $U_i$  relating to the quarter-hour  $\frac{1}{4} h$ , with  $M_{i, \frac{1}{4}h}^+ > 0$ , indicating the maximum quantity of injection capacity in a quarter-hour and  $M_{i, \frac{1}{4}h}^+ < 0$ , indicating the minimum quantity of withdrawal capacity in a quarter-hour<sup>4</sup>;
- $M_{i, \frac{1}{4}h}^-$  = step-down margin of  $U_i$  relating to the quarter-hour  $\frac{1}{4} h$ , with  $M_{i, \frac{1}{4}h}^- < 0$ , indicating the maximum withdrawal quantity in a quarter-hour and  $M_{i, \frac{1}{4}h}^- > 0$ , indicating the minimum quantity of injection capacity in a quarter-hour<sup>5</sup>;
- $\sum_{PZ_i}^{BRP} PC_{PZ_i}^{1/4h}$  = commercial position, relating to the quarter-hour  $\frac{1}{4} h$ , of all the physical portfolios  $PZ_i$  consisting of units of the same BRP, regardless of which Market Participant is enabled to submit bids/offers on such portfolios into the market and to register nominations on such units,  
with  $\sum_{PZ_i}^{BRP} PC_{PZ_i}^{1/4h} = 0$  for commercial sell positions;  $\sum_{PZ_i}^{BRP} PC_{PZ_i}^{1/4h} < 0$  for commercial buy positions; and  $\sum_{PZ_i}^{BRP} PC_{PZ_i}^{1/4h} = 0$  for null commercial positions;
- $S_{brp,z}^{1/4h}$  = nomination on residual units carried out by GME; it is equal to the difference between the commercial position and the algebraic sum of nominations pertaining to the same BRP in a specific zone  $z$ .

Adequacy checks with respect to the margins of units are carried out taking also into account the feasibility intervals, if any, defined by Terna.

GME will verify the adequacy of nominations and make possible adjustments in the following order:

- step 1: decrease of the absolute value of nominations resulting from adequacy checks with respect to the margins of the individual injection unit;
- step 2: decrease of the absolute value of nominations resulting from adequacy checks with respect to the commercial position of injection portfolios;
- step 3: increase of the absolute value of nominations (the so-called stretching) resulting from adequacy checks with respect to the margins of the individual injection unit.

PN in respect of the units for which the Market Participant has not registered any nomination within the established time limits.

<sup>4</sup> To describe the criteria used for carrying out the adequacy checks, the following sign conventions have been adopted in this Technical Rule: step-up margins have a positive sign, whereas step-down margins have a negative sign. In SIME, the margins are expressed in absolute value.

<sup>5</sup> See previous note.

*Step 1: decrease of the absolute value of nominations resulting from adequacy checks with respect to the margins of the individual injection unit*

Upon adequacy checks, GME will initially verify whether, for each unit, the injection or withdrawal nomination is adequate with respect to the step-up margin or step-down margin of the unit<sup>6</sup>, respectively, namely:

- if  $N_i^{1/4h} > 0$  (injection nomination), then the following should be true:  $N_i^{1/4h} \leq M_{i,1/4h}^+$  (the injection nomination should be lower than or equal to the step-up margin);
- if  $N_i^{1/4h} < 0$  (withdrawal nomination), then the following should be true:  $N_i^{1/4h} \geq M_{i,1/4h}^-$  (the withdrawal nomination should be higher than or equal to the step-down margin).

If this verification gives a negative outcome, GME will correct the unit nomination (injection or withdrawal), setting it equal to  $M_{i,1/4h}^+$  i.e. equal to  $M_{i,1/4h}^-$  if the nomination is higher in absolute value than the step-up margin or lower than the step-down margin<sup>7</sup>.

*Step 2: decrease of the absolute value of nominations resulting from adequacy checks with respect to the commercial position of injection portfolios*

Subsequently, GME will verify the adequacy of nominations with respect to the commercial position of portfolios.

This verification is made in each zone, by comparing the nominations pertaining to all the injection units of each BRP with the overall commercial position of the physical portfolios consisting of the same units, regardless of whether the party entitled to submit bids/offers and to register nominations on such units is the BRP, or an agent delegated by the BRP or, for nominations only, the BSP.

In particular, considering the previous corrections mentioned in Step 1, GME will ensure that:

1. for physical zonal injection portfolios, consisting of units of the same BRP and belonging to the same zone, which have an overall net commercial sell position, the algebraic sum between injection and withdrawal nominations is higher than 0;

<sup>6</sup> Step-up and step-down margins take into account the upper feasibility intervals, if any, defined by Terna for the units enabled to participate in the MSD.

<sup>7</sup> For cross border import/export units (whether or not associated with the monitoring of scheduled cross-border trade), the nomination made by GME will always be equal to the commercial position resulting from the markets, and it will be registered even if it is not consistent with the margins communicated and possibly changed by Terna between the MGP and the MI.

2. for physical zonal injection<sup>8</sup> portfolios, consisting of units of the same BRP and belonging to the same zone, which have an overall net buy<sup>9</sup> position, the algebraic sum between injection and withdrawal nominations is lower than 0.

If these checks give a negative outcome, then GME will make the following corrections:

- if  $\sum_{PZi}^{BRP} PC_{PZi}^{1/4h} > 0$  (commercial sell position) and  $\sum_{i \in PZ}^{BRP} N_i^{1/4h} < 0$  (algebraic sum of nominations equal to a net withdrawal), it will correct the withdrawal nominations on injection units until  $\sum_{i \in PZ}^{BRP} N_i^{1/4h} = 0$  (algebraic sum of nominations equal to 0). For these corrections, reference will be made to the criteria indicated in paragraph 4, "Criteria for correction of nominations";
- if  $\sum_{PZi}^{BRP} PC_{PZi}^{1/4h} < 0$  (commercial buy position) and  $\sum_{i \in PZ}^{BRP} N_i^{1/4h} > 0$  (algebraic sum of nominations equal to a net injection), it will correct the injection nominations on the injection units until  $\sum_{i \in PZ}^{BRP} N_i^{1/4h} = 0$  (algebraic sum of nominations equal to 0). For these corrections, reference will be made to the criteria indicated in paragraph 4, "Criteria for correction of nominations";
- if  $\sum_{PZi}^{BRP} PC_{PZi}^{1/4h} = 0$  (commercial position equal to zero) and  $\sum_{i \in PZ}^{BRP} N_i^{1/4h} <> 0$  (algebraic sum of nominations equal to a net injection or to a net withdrawal), GME will correct the withdrawal nominations (if withdrawal nominations are higher than injection nominations) or injection nominations (if withdrawal nominations are lower than injection nominations) until  $\sum_{i \in PZ}^{BRP} N_i^{1/4h} = 0$  (algebraic sum of nominations equal to 0). For these corrections, reference will be made to the criteria indicated in paragraph 4, "Criteria for correction of nominations".

GME will also ensure that:

- for physical injection portfolios with commercial sell positions, the algebraic sum of nominations is not higher than the commercial position in absolute value arising from the MGP and MI, i.e. it will ensure that  $\sum_{i \in PZ}^{BRP} N_i^{1/4h} \leq \sum_{PZi}^{BRP} PC_{PZi}^{1/4h}$  (algebraic sum of nominations lower than or equal to the absolute value of the sum of commercial positions);

<sup>8</sup> It is worth pointing out that physical injection portfolios (including pumped-storage units, storage systems other than those referred to in Legislative Decree 210/21, virtual export units, and systems for auxiliary services) may also give rise to commercial buy positions, since these systems have a step-down margin lower than 0 (they may withdraw energy from the grid). Thus, if a commercial buy position arises on injection portfolios, the sum of withdrawal nominations should be, in absolute value, higher than or equal to the sum of injection nominations.

<sup>9</sup> Excluding physical injection portfolios relating to cross border export/import units.

- for physical injection portfolios with commercial buy positions, the absolute value of the sum of nominations is not lower than the commercial position arising from the MGP and MI, i.e. that  $\sum_{i \in \text{PZ}}^{BRP} N_i^{1/4h} \geq \sum_{PZi}^{BRP} PC_{PZi}^{1/4h}$  (algebraic sum of nominations higher than or equal to the algebraic sum of commercial positions).

If these verifications give a negative outcome, GME will correct nominations until reaching the commercial positions under the criteria indicated in paragraph 4, "Criteria for correction of nominations".

*Step 3: increase of the absolute value of nominations (the so-called stretching) resulting from adequacy checks with respect to the margins of the individual injection unit*

Finally, after these corrections, GME will ensure that, for each unit, the injection or withdrawal nomination is adequate with respect to the step-down or step-up margin of the unit, respectively, as possibly corrected to take into account feasibility intervals<sup>10</sup>.

In particular, GME will ensure that:

- if  $N_i^{1/4h} > 0$  (injection nomination), the following is true  $N_i^{1/4h} \geq M_{i,1/4h}^-$  (injection nomination higher than or equal to the step-down margin);
- if  $N_i^{1/4h} < 0$  (withdrawal nomination), the following is true  $N_i^{1/4h} \leq M_{i,1/4h}^+$  (withdrawal nomination lower than or equal to the step-up margin).

If this verification is not successful, GME will increase, in absolute value, the nomination of the injection or withdrawal unit (the so-called stretching), setting it equal to  $M_{i,1/4h}^-$  or to  $M_{i,1/4h}^+$ , both considered in absolute value.

It should be pointed out that, for pumped-storage units and auxiliary services that TIDE classifies as injection units, there may be cases where  $M_{i,1/4h}^+$ , after being corrected to take into account the feasibility interval, proves to be negative in order to indicate the minimum consumption level of a given unit.

<sup>10</sup> For units enabled to participate in the MSD, Terna may, through the feasibility interval, define a step-down margin for injection units or a step-up margin for withdrawal units starting from zero, in such a way as to bind the unit to comply with a minimum level of injection/withdrawal of energy.

With regard to the Units ( $U_i$ ) for which no nomination has yet been registered and for which the BRP and the BSP do not coincide, a nomination equal to zero will be assumed. As for the Units ( $U_i$ ) for which no nomination has yet been registered and for which the BRP and the BSP coincide, an implicit nomination will be assumed; this nomination will be equal to the commercial position on each zonal portfolio resulting from the energy markets.

### 3. Residual nominations

After the corrections described in the previous paragraphs, GME will make a residual nomination for each zone and each BRP in respect of physical injection portfolios. This residual nomination – on the residual injection unit UVZ FRNP – will be equal to the difference between the commercial position and the sum of nominations, as corrected, i.e.

$$S_{brp,z}^{1/4h} = \sum_{PZi}^{BRP} PC_{PZi}^{1/4h} - \sum_{i \in PZ}^{BRP} N_i^{1/4h}$$
 (residual nomination of the Market Participant, equal to the difference between the algebraic sum of commercial positions and the algebraic sum of nominations in respect of the units held by the same Participant).

GME's nominations must not necessarily satisfy the margins of the residual unit UVZ . Indeed, a residual withdrawal nomination may arise on the residual injection UVZ FRNP, if the corrected nominations (which must take into account the margins of units) are not sufficient to ensure the consistency of nominations with the commercial position of portfolios, i.e. to ensure that the sum of nominations does not exceed the corresponding commercial position ( $\sum_{i \in PZ}^{BRP} N_i^{1/4h} > \sum_{PZi}^{BRP} PC_{PZi}^{1/4h}$ ) in absolute value.

### 4. Criteria for correction of nominations

The corrections referred to in paragraph 2 are made under the following criteria (in accordance with the rules related to the priority, if any, between injection and withdrawal nominations).

- in the first place, GME will correct the nominations of Units not enabled to participate in the Integrated Scheduling Process (UnAP and UVZ), where applicable<sup>11</sup>;

<sup>11</sup> In each zone and for each BRP, a single residual withdrawal UVZ is assigned; therefore, for this UVZ, no correction can be made in the event of reductions in withdrawal nominations.



- in the second place, GME will correct the nominations of Units enabled to participate in the Integrated Scheduling Process (UVN and UAS).

Within each of the above categories, GME will make the correction by applying the *pro quota* criterion only.