



REPUBLIKA HRVATSKA

HRVATSKA ENERGETSKA
REGULATORNA AGENCIJA
Ulica grada Vukovara 14
10000 Zagreb

KLASA: 310-11/20-01/5
URBROJ: 371-06-21-4
Zagreb, 26. svibnja 2021.

=> Blazević
Mravak - Knerić



PRIJEMNI ŠTAMPILJ
Hrvatski operator prijenosnog sustava d.o.o.
ZGRADA OPERATORA PRIJENOSNOG SUSTAVA

| | |
|--------------------------------|--------------------------|
| Priljeno: 01.06.2021., 08:23 h | |
| Klasifikacijska oznaka: | Ustrojstvena jedinica: |
| 700/20-15/1420 | 3-300/TB |
| Uredbeni broj: | Prilozi: Broj preporuke: |
| 1-21-02 | 0 ARF740260334HR |



oDI6ia30jUKAheGJhmZpkw

Na temelju članka 9. stavka 5. Uredbe Komisije (EU) 2015/1222 od 24. srpnja 2015. o uspostavljanju smjernica za dodjelu kapaciteta i upravljanje zagušenjima i članka 1. Provedbene uredbe Komisije (EU) br. 2021/280 od 22. veljače 2021. o izmjeni uredaba (EU) 2015/1222, (EU) 2016/1719, (EU) 2017/2195 i (EU) 2017/1485 radi njihova usklađivanja s Uredbom (EU) 2019/943, Hrvatska energetska regulatorna agencija je na 11. sjednici Upravnog vijeća održanoj 26. svibnja 2021. donijela

ODLUKU

o revidiranju i davanju odobrenja na Zajednički prijedlog svih operatora prijenosnih sustava Core regije za proračun kapaciteta Prve izmjene metodologije koordiniranog proračuna kapaciteta za razdoblje tržišta dan unaprijed za proračun kapaciteta u skladu s člankom 20. i nadalje Uredbe Komisije (EU) 2015/1222 od 24. srpnja 2015. o uspostavljanju smjernica za dodjelu kapaciteta i upravljanje zagušenjima

1. Revidira se i daje se odobrenje na Zajednički prijedlog svih operatora prijenosnih sustava Core regije za proračun kapaciteta Prve izmjene metodologije koordiniranog proračuna kapaciteta za razdoblje tržišta dan unaprijed za proračun kapaciteta u skladu s člankom 20. i nadalje Uredbe Komisije (EU) 2015/1222 od 24. srpnja 2015. o uspostavljanju smjernica za dodjelu kapaciteta i upravljanje zagušenjima (engl. First amendment of the Day-Ahead Capacity Calculation Methodology of the Core Capacity Calculation Region in accordance with article 20ff. of the Commission Regulation (EU) 2015/1222 of 24th July 2015 establishing a guideline on capacity allocation and congestion management) koji je Hrvatski operator prijenosnog sustava d.o.o., Kupska 4, Zagreb dostavio Hrvatskoj energetskej regulatornoj agenciji dopisom Klasa: 700/20-15/1420, Urbroj: 3-300/DB-20-01, od 30. studenoga 2020.
2. Nalaže se Hrvatskom operatoru prijenosnog sustava d.o.o., Kupska 4, Zagreb da, na temelju članka 9. stavka 14. Uredbe Komisije (EU) 2015/1222 od 24. srpnja 2015. o uspostavljanju smjernica za dodjelu kapaciteta i upravljanje zagušenjima, na svojoj internetskoj stranici objavi Prve izmjene metodologije koordiniranog proračuna kapaciteta za razdoblje tržišta dan unaprijed za proračun kapaciteta u skladu s člankom 20. i nadalje Uredbe Komisije (EU) 2015/1222 od 24. srpnja 2015. o uspostavljanju smjernica za dodjelu kapaciteta i upravljanje zagušenjima.
3. Ova Odluka objavit će se na internetskoj stranici Hrvatske energetske regulatorne agencije.

4. Ova Odluka stupa na snagu danom donošenja.



Predsjednik Upravnog vijeća

Tomislav Jureković, dipl. ing.

Prilog:

First amendment of the Day-Ahead Capacity Calculation Methodology of the Core Capacity Calculation Region in accordance with Articles 20ff. of the Commission Regulation (EU) 2015/1222 of 24th July 2015 establishing a guideline on capacity allocation and congestion management, 10 May 2021

First amendment of the Day-Ahead Capacity Calculation Methodology of the Core Capacity Calculation Region

in accordance with Articles 20ff. of the Commission Regulation (EU)
2015/1222 of 24th July 2015 establishing a guideline on capacity allocation
and congestion management

10 May 2021

Whereas

TSOs of the Core CCR (“Core TSOs”), taking into account the following:

- (1) Based on further developments and alignments with Core NRAs after the decision by the Agency in 21st February 2019, Core TSOs deemed it necessary to introduce the following changes.
- (2) The following changes fulfil the objectives set out in Article 3 CACM.

For the purposes of this first amendment to the Core CCR TSOs’ Day-Ahead Capacity Calculation Methodology, terms used in this document shall have the meaning of the definitions included in Article 2 of the CACM Regulation, of Regulation (EC) 714/2009, Directive 2009/72/EC, Commission Regulation (EU) 2016/1719 and Commission Regulation (EU) 543/2013 and the definitions set out in Article 2 Annex I of the Decision No 02/2019 of the Agency for the Cooperation of the Energy Regulators of 21 February 2019 on the Core CCR TSOs’ proposal for the regional design of the day-ahead and intraday common capacity calculation methodologies.

Article 1
CGMES in day-ahead capacity calculation process

1. Article 2. Definitions and interpretation shall be amended accordingly:

A new number 76. shall be included and be read accordingly:

“ 76. ‘CGMES’ means the common grid model exchange specification that is developed by ENTSO-E pursuant to the CGMM.”

2. Article 4. Day-ahead capacity calculation process shall be amended accordingly:

A new paragraph 5a. shall be included and be read accordingly:

“No later than 3 months after the implementation of the common grid model methodology according to Article 17 CACM Regulation and the implementation of this methodology according to Article 28, Core TSOs shall deliver an assessment for the application of CGMES in the capacity calculation, including a planning proposal with clear milestones for each implementation step.”

Article 2
FRM assessment

Article 8. Reliability margin methodology shall be amended accordingly:

1. A new paragraph 5a. shall be included and be read accordingly:

“5a. The Core TSOs shall repeat steps one and two pursuant to paragraphs 3 to 5 with two different implementation approaches for paragraph 3, sentence 4, where one implementation leads to an upper estimate and the other implementation leads to a lower estimate of the true *FRM*.

(a) For the determination of the upper estimate, the historical CGMs shall be updated such that only the RAs considered during the day-ahead capacity calculation are considered as deliberated Core TSOs’ actions. This will yield an upper estimate of the FRM because some deliberated Core TSOs’ actions, in particular re-dispatching, will not be considered and thus treated as source of FRM.

(b) For the determination of the lower estimate, the historical CGMs shall additionally be updated such that also the entire generation pattern of the Core CCR is considered as deliberated Core TSOs’ actions. This will yield a lower estimate of the FRM because only a part of the entire generation dispatch is the result of deliberated Core TSOs’ actions in the form of re-dispatching.”

2. In Article 8.7 a 3rd sentence shall be included:

“The proposal for amendment shall include an approach and justification for selecting the *FRM* from the range between the lower and upper estimates as well as next possible steps for improving the process to approach as much as possible the true *FRM*.”

Article 3 Extended LTA-Inclusion

1. Whereas shall be amended accordingly:

A new number (24) shall be included:

“(24) Cross-zonal capacities determined by the day-ahead capacity calculation shall ensure that all combinations of net positions that could result from previously-allocated cross-zonal capacity – Long Term Allocations (LTA) – can be accommodated. For that purpose, the TSOs proceed to the LTA inclusion which consists in providing a single flow-based domain including LTAs for the single day-ahead coupling. The new extended LTA inclusion approach differs by providing the single day-ahead coupling with LTAs and the flow-based domain without LTA inclusion separately. The market coupling algorithm then chooses which union of both domains creates most welfare.”

2. Article 2. Definitions and interpretation shall be amended accordingly:

a) A new number 73. shall be included and be read accordingly:

“73. ‘CZC’ means cross-zonal capacity whereas this capacity is to be understood as an union of “flow-based parameters” (flow-based domain) and “LTA values” (LTA domain);“

b) A new number 74. shall be included and be read accordingly:

“74. ‘LTA domain’ means a set of bilateral exchange restrictions covering the previously allocated cross-zonal capacities;“

3. Article 18. Long-term allocated capacity (LTA) inclusion shall be amended accordingly:

a) In Article 18.1(a) the phrase “the RAM of each CNEC remains non-negative in” shall be replaced by the phrase “cross-zonal capacities can accommodate” and be read accordingly:

“(a) the rules ensure that cross-zonal capacities can accommodate all combinations of net positions that could result from previously-allocated cross-zonal capacity.”

b) A new paragraph 1a. shall be included and be read accordingly:

“1a. From the go-live of the implementation of this methodology in accordance with Article 28(3), all Core TSOs shall implement the rules set out in paragraph 1 by extended LTA inclusion.

If Core TSOs conclude that the implementation of extended LTA inclusion is not feasible from the go-live of the implementation of this methodology in accordance with Article 28(3), Core TSOs may propose to Core NRAs for consent to jointly implement the rules set out in paragraph 1 by the LTA margin approach as a temporary solution for a limited period in time. Core TSOs shall provide a sound justification to Core NRAs.

When extended LTA inclusion is operational, Core TSOs may apply the LTA margin approach as a rollback solution, for a limited period in time. Core TSOs shall provide a sound justification to Core NRAs.

Core TSOs shall regularly review the choice for the Extended LTA inclusion approach against the alternative LTA margin approach and propose to Core NRAs to change the approach if considered appropriate.

(a) The LTA margin approach pursuant to paragraphs 2 to 5 ensures that the *RAM* of each CNEC remains non-negative in all combinations of net positions that could result from previously allocated cross-zonal capacity. The cross-zonal capacities consist of a flow-based domain.

(b) When applying extended LTA inclusion, the cross-zonal capacities consist of a flow-based domain without LTA inclusion and a LTA domain.”

c) A new paragraph 5a. shall be included and be read accordingly:

“5a. In case the extended LTA approach is applied, Core TSOs may additionally carry out the steps described in paragraphs 2 to 5 with the sole purpose to make available a flow-based domain with LTA inclusion as input for the individual validation as described in Articles 19 and 20.”

4. Article 19. Calculation of flow-based parameters before validation shall be amended accordingly:

a) Letter (d) shall be amended accordingly:

- aa) In Equation 19 the parameter " $\overrightarrow{RAM}_{bv}$ " shall be re-named to " $\overrightarrow{RAM}_{bv,LTAmargin}$ " and shall be read accordingly:

$$\overrightarrow{RAM}_{bv,LTAmargin} = \vec{F}_{max} - \overrightarrow{FRM} - \vec{F}_{0,Core} + \overrightarrow{AMR} + \overrightarrow{LTA}_{margin}$$

- bb) The description of Equation 19 shall be extended by the letter "a" and shall be read accordingly:

"Equation 19a"

- cc) The definition of " $\overrightarrow{RAM}_{bv}$ " shall be re-named to " $\overrightarrow{RAM}_{bv,LTAmargin}$ " and shall be extended by the phrase "with application of the flow margin for LTA inclusion pursuant to Article 18" and shall be read accordingly:

" $\overrightarrow{RAM}_{bv,LTAmargin}$ Remaining available margin before validation with application of the flow margin for LTA inclusion pursuant to Article 18"

- b) A letter "(e)" shall be included and be read as follows:

"(e) in case the extended LTA approach pursuant to Article 18(1a)(b) is applied the calculation of RAM before validation as follows;

$$\overrightarrow{RAM}_{bv,noLTAmargin} = \vec{F}_{max} - \overrightarrow{FRM} - \vec{F}_{0,Core} + \overrightarrow{AMR}$$

Equation 19b

with

" $\overrightarrow{RAM}_{bv,noLTAmargin}$ Remaining available margin before validation without application of the flow margin for LTA inclusion pursuant to Article 18"

5. Article 20. Validation of flow-based parameters shall be amended accordingly:

- a) In Article 20.2 in the 2nd sentence "(i.e. the RAM_{bv})" shall be deleted and be read accordingly:

"Capacity validation shall consist of two steps. In the first step, the Core TSOs shall analyse in a coordinated manner whether the cross-zonal capacity could violate operational security limits, and whether they have sufficient RAs to avoid such violations. In the second step, each Core TSO shall individually analyse whether the cross-zonal capacity could violate operational security limits in its own control area."

- b) A new paragraph 2a. shall be added and be read accordingly:

“In case Core TSOs apply the LTA margin approach according to Article 18(1a)(a), the capacity validation shall be based on the flow-based domain with $RAM_{bv,LTAmargin}$. In case Core TSOs apply the extended LTA inclusion approach according to Article 18(1a)(b), the capacity validation shall be based on the convex hull of the flow-based domain with $RAM_{bv,noLTAmargin}$ and the LTA domain, but for individual validation according to paragraph 5 each Core TSO may decide to base it on $RAM_{bv,LTAmargin}$ instead.”

c) Article 20.3 shall be amended and be read accordingly:

aa) The 1st sentence shall be replaced by the following sentence:

“In the process of cross-zonal capacity validation the Core TSOs shall exchange information on all expected available (non-costly and costly) RAs in the Core CCR, defined in accordance with Article 22 of the SO Regulation.”

bb) In the 2nd sentence the phrase “ RAM_{bv} on individual CNECs” shall be replaced by the term “cross-zonal capacity” and be read accordingly:

“In case the cross-zonal capacity could lead to violation of operational security, all Core TSOs in coordination with the CCC shall verify whether such violation can be avoided with the application of RAs.”

cc) In the 4th sentence the parameter “ RAM_{bv} ” shall be re-named to “ $RAM_{bv,LTAmargin}$ ” and the phrase “or $RAM_{bv,noLTAmargin}$ ” shall be added and be read accordingly:

“For those CNECs where all available RAs are not sufficient to avoid the violation of operational security, the Core TSOs in coordination with the CCC may reduce the $RAM_{bv,LTAmargin}$ or $RAM_{bv,noLTAmargin}$ to the maximum value which avoids the violation of operational security.”

dd) In the 5th sentence the phrase “of the RAM_{bv} ” shall be deleted and shall be read accordingly:

“This reduction is called ‘coordinated validation adjustment’ (CVA) and the adjusted RAM is called ‘ RAM after coordinated validation’.”

d) Article 20.10 shall be amended accordingly:

aa) In the 1st sentence the reference to “Equation 20” shall be replaced by a reference to “Equation 20a”. Additionally the 1st sentence shall be ex-

tended by the sentence “, if the LTAmargin approach is applied, and according to Equation 20b if the extended LTA inclusion is applied:” and shall be read accordingly:

“After coordinated and individual validation adjustments, the RAM_{bn} before adjustment for long-term nominations shall be calculated by the CCC for each CNEC and external constraint according to Equation 20a, if the LTA-margin approach is applied, and according to Equation 20b if the extended LTA inclusion is applied:”

bb) In Equation 20 the parameter “ $\overrightarrow{RAM}_{bv}$ ” shall be re-named to “ $\overrightarrow{RAM}_{bv,LTAmargin}$ ” and shall be read accordingly:

$$\overrightarrow{RAM}_{bn} = \overrightarrow{RAM}_{bv,LTAmargin} - \overrightarrow{CVA} - \overrightarrow{IVA}$$

cc) The description of Equation 20 shall be extended by the letter “a” and read as follows:

“Equation 20a”

dd) A new equation 20b shall be included and read as follows:

$$\overrightarrow{RAM}_{bn} = \overrightarrow{RAM}_{bv,noLTAmargin} - \overrightarrow{CVA} - \overrightarrow{IVA}$$

Equation 20b

ee) The definition on “ $\overrightarrow{RAM}_{bv}$ ” shall be re-named to “ $\overrightarrow{RAM}_{bv,LTAmargin}$ ” and be extended by the phrase “pursuant to Article 19(d)” and shall be read accordingly:

“ $\overrightarrow{RAM}_{bv,LTAmargin}$ remaining available margin before validation pursuant to Article 19(d)”

ff) A new definition on “ $\overrightarrow{RAM}_{bv,noLTAmargin}$ ” shall be included and be read accordingly:

“ $\overrightarrow{RAM}_{bv,noLTAmargin}$ remaining available margin before validation pursuant to Article 19(e)”

e) Article 20.12 shall be amended accordingly:

In the 1st sentence the phrase “Pursuant to Article 18(1)(a)” shall be replaced by “Only when Core TSOs apply the LTAmargin approach pursuant to Article 18(1a)(a),” and be extended by “,in order to fulfil the requirement pursuant to Article 18(1)(a)” and shall be read accordingly:

“Only when Core TSOs apply the LTAmargin approach pursuant to Article 18(1a)(a), capacity reductions through CVA and IVA shall ensure that the RAM_{bn} remains non-

negative in all combinations of nominations resulting from LTA, in order to fulfil the requirement pursuant to Article 18(1)(a).”

6. Article 21. Calculation and publication of final flow-based parameters shall be amended accordingly:

a) In Article 21.1 a 5th sentence shall be added:

“In addition the CCC shall publish the LTA domain.”

b) A new paragraph 3a. shall be included and be read accordingly:

“3a. After the CCC receives all nominations of allocated long-term cross-zonal capacity (long-term nominations), it shall also adjust the LTA domain for long-term nominations.”

c) In Article 21.4 in the 2nd sentence in between the words “flow-based parameters” and “be provided” the phrase “and the LTA domain adjusted for long-term nominations” shall be added and be read accordingly:

“In accordance with Article 46 of the CACM Regulation, the CCC shall ensure that, for each DA CC MTU, the final flow-based parameters and the LTA domain adjusted for long-term nominations be provided to the relevant NEMOs as soon as they are available and no later than 10:30 market time day-ahead.”

7. Article 22. Day-ahead capacity calculation fallback procedures shall be amended accordingly:

In letter (a) a 5th sentence shall be included and be read as follows:

“In case the extended LTA inclusion approach is applied, the LTA domain for missing hours contains for each Core border the minimum of the long-term allocated capacities values of the hours for which the previous and subsequent flow-based parameters are available.”

8. Article 23. Calculation of ATCs for SDAC fallback procedure shall be amended accordingly:

A new paragraph 5a. shall be included and be read as following:

“5a. In case extended LTA inclusion approach is applied the ATCs for SDAC fallback procedure are set equal to the LTAs for each Core oriented bidding zone border, reduced by LTN, i.e.:

$$\overline{ATC} = \overline{LTA} - \overline{LTN}$$

with

\overline{ATC} the ATC for SDAC fallback procedure

\overline{LTA} the LTA on Core oriented bidding zone borders

\overline{LTN} the nomination of the long-term allocated capacity on Core oriented bidding zone borders.”

9. Article 25. Publication of data shall be amended accordingly:

In Article 25.2.(d) vii. between the terms “ LTA_{margin} ” and “ CVA ” the phrase “(not applicable for the parameter LTA_{margin} in case extended LTA inclusion approach is applied)” shall be included and shall be read accordingly:

“detailed breakdown of RAM for each CNEC of the final flow-based parameters before pre-solving: I_{max} , U , F_{max} , FRM , $F_{ref,init}$, F_{nrso} , F_{ref} , $F_{0,core}$, $F_{0,all}$, F_{uaf} , AMR , LTA_{margin} (not applicable for the parameter LTA_{margin} in case extended LTA inclusion approach is applied), CVA , IVA , F_{LTN} ;”

Article 4

Consideration of non-Core bidding zone borders

1. Article 2. Definitions and interpretation shall be amended accordingly:

A new number 75. shall be included and be read accordingly:

“75. ‘technical counterparty’ means a TSO which is not a Core TSO and operates in a country which is not a Member State of the European Union;”

2. Article 4. Day-ahead capacity calculation process shall be amended accordingly:

A new paragraph 8a. shall be included and be read accordingly:

“8a. The steps in Article 4(7) shall be complemented with the IGMs of technical counterparties, subject to Article 13(2).”

3. Article 11. Calculation of power transfer distribution factors and reference flows shall be amended accordingly:

A new paragraph 7a. shall be included and be read accordingly:

“7a. For network elements with contingencies from technical counterparties pursuant to Article 20(6a) the steps referred to in paragraphs 3 to 7 above shall be performed by the CCC with the additional inclusion of the bidding zone

of the technical counterparty in Equation 5, subject to Article 13(2). For the sake of computing PTDFs and flow components for such network elements with contingencies, the CCC shall use the GSK provided by the technical counterparty.”

4. Article 13. Consideration of non-Core bidding zone borders shall be amended accordingly:

a) In paragraph 1, the part of the sentence “*with a standard hybrid coupling (SHC) and where possible also with an advanced hybrid coupling (AHC)*” shall be removed.

b) Paragraphs 2, 3, 4 and 5 shall be integrated in a new paragraph 3, and numbered as paragraphs a), b), c) and d).

c) In the introduction of the new paragraph 3, the sentence “*In other cases, the Core TSOs shall consider using a standard hybrid coupling (SHC) and where possible also an advanced hybrid coupling (AHC).*” shall be added.

d) In paragraph c) of the new paragraph 3, “*eighteen months*” shall be replaced with “*six months*”.

e) As a consequence of points b), c) and d) above, the new paragraph 3 shall be read as follows:

“3. In other cases, the Core TSOs shall consider using a standard hybrid coupling (SHC) and where possible also an advanced hybrid coupling (AHC).

(a) In the standard hybrid coupling, the Core TSOs shall consider the electricity exchanges on bidding zone borders outside the Core CCR as fixed input to the day-ahead capacity calculation. These electricity exchanges, defined as best forecasts of net positions and flows for HVDC lines, are defined and agreed pursuant to Article 19 of the CGMM and are incorporated in each CGM. They impact the F_{ref} and $F_{(0,Core)}$ on all CNECs and thereby increase or decrease the RAM of the Core CNECs in order for those CNECs to accommodate the flows resulting from those exchanges. Uncertainties related to the electricity exchanges forecasts are implicitly integrated within the FRM of each CNEC.

(b) In the AHC, the CNECs of the day-ahead capacity calculation methodology shall limit not only the net positions of the Core bidding zone borders, but also the electricity exchanges on bidding zone borders of adjacent CCRs.

(c) No later than six months after the implementation of this methodology in accordance with Article 28(3), the Core TSOs shall jointly develop a proposal for the implementation of the AHC and submit it by the same deadline to all Core regulatory authorities as a proposal for amendment of this methodology in

accordance with Article 9(13) of the CACM Regulation. The proposal for the implementation of the AHC shall aim to reduce the volume of unscheduled allocated flows on the CNECs of the Core CCR resulting from electricity exchanges on the bidding zone borders of adjacent CCRs. If before the implementation of this methodology, the AHC has been implemented on some bidding zone borders in existing flow-based capacity calculation initiatives, it may continue to be applied on those bidding zone borders as part of the day-ahead capacity calculation carried out according to this methodology until the amendments pursuant to this paragraph are implemented.

(d) Until the AHC is implemented, the Core TSOs shall monitor the accuracy of non-Core exchanges in the CGM. The Core TSOs shall report in the annual report to all Core regulatory authorities the accuracy of such forecasts.”

f) A new paragraph 2 shall be included and read as follows:

“2. Where Core TSOs consider as essential to enhance coordination in day-ahead capacity calculation with a technical counterparty, such enhanced coordination shall be based on the consideration of network elements of the technical counterparty and/or network elements of (a) Core TSO(s) that is (are) significantly influenced by the exchanges with the bidding zone managed by this technical counterparty. A concept description documentation shall be jointly established between all Core TSOs and the technical counterparty. The documentation shall include at least a clear description of:

- (a) the interfaces to this methodology, including the lists and the values of network elements and of all parameters to be considered,
- (b) common and individual procedures that are performed by the Core TSOs, the CCC and the technical counterparty,
- (c) the rights and obligations of the technical counterparty and of the Core TSOs in this respect,
- (d) the monitoring of the effects and performance of the application of this enhanced coordination.

If the technical counterparty operates in a country that applies the legal framework of the European Energy Market or has concluded an intergovernmental agreement on electricity markets with the European Union, the following provisions of Article 13(2) do not apply.

The concept description documentation is subject to unanimous validation by all Core regulatory authorities and it must be contractually agreed upon between all Core TSOs and the technical counterparty. Where the concept description documentation or elements thereof have not been unanimously validated by all Core regulatory authorities, the Core TSOs shall not enhance cooperation with a technical counterparty in day-ahead capacity calculation.

The concept description documentation shall be regularly reviewed by all Core TSOs and validated by all Core regulatory authorities. The respective

next date of the review and the validation shall be specified in the concept description documentation.

Upon the unanimous validation by all Core regulatory authorities, all Core TSOs shall accordingly apply and consider the results from such an enhanced coordination in the day-ahead capacity calculation.

5. Article 14. Initial flow-based calculation shall be amended accordingly:

A new paragraph 3a. shall be included and be read accordingly:

“3a. For network elements with contingencies from technical counterparties pursuant to Article 20(6a), the steps described in paragraphs 1 to 3 shall be carried out by the CCC in order to enable a potential submission, subject to Article 13(2), of the network elements with contingency by the technical counterparty to the final list of CNECs during individual validation. Until then, the network elements with contingencies from technical counterparties shall not be considered as constraints to the formulation of flow-based domain, neither to the NRAO.”

6. Article 20. Validation of flow-based parameters shall be amended accordingly:

A new paragraph 6a. shall be included and be read accordingly:

“6a. A technical counterparty may, subject to Article 13(2), add a network element with a specific contingency for which the maximum zone-to-zone PTDF is above the PTDF threshold referred to in Article 15(1) in conjunction with Article 11(7a) to the final list of CNECs.”

Article 5

Validation of flow-based parameters

Article 20. Validation of flow-based parameters shall be amended accordingly:

a) Article 20.6 shall be amended accordingly:

In paragraph 6 a 3rd and 4th sentence shall be added and be read accordingly:

“ $PTDF_{init}$ according to Article 14(3) shall be used to determine if the PTDF of the additional CNEC is above the PTDF threshold. When applying the additional CNEC during the computation of the final flow-based parameters, the $PTDF_f$ value from the NRAO according to Article 16 shall be considered.”

b) Article 20.13 shall be read accordingly:

aa) Letter (e) shall be removed.

- bb) The reference in letter (f) to letter (e) shall be removed and be read accordingly:

“(f) if an internal network elements with a specific contingency was exceptionally added to the final list of CNECs during validation: a justification why adding the network elements with a specific contingency to the list was the only way to ensure operational security, the name or the identifier of the internal network elements with a specific contingency, the DA CC MTUs for which the internal network elements with a specific contingency was added to the list and the information referred to in points (b) and (c) above;”

Article 6

Fallback procedures

Article 22. Day-ahead capacity calculation fallback procedures shall be amended accordingly:

- a) In the 1st paragraph between the words “by using” and “one of” the sentence “the results of the initial flow-based calculation to directly run the computation of the final flow-based parameters according to Article 21. In case this does not lead to the final flow-based parameters either, the Core TSOs and the CCC shall calculate the remaining missing results by using” shall be included and be read accordingly:

“According to Article 21(3) of the CACM Regulation, when the day-ahead capacity calculation for specific DA CC MTUs does not lead to the final flow-based parameters due to, *inter alia*, a technical failure in the tools, an error in the communication infrastructure, or corrupted or missing input data, the Core TSOs and the CCC shall calculate the missing results by using the results of the initial flow-based calculation to directly run the computation of the final flow-based parameters according to Article 21. In case this does not lead to the final flow-based parameters either, the Core TSOs and the CCC shall calculate the remaining missing results by using one of the following two capacity calculation fallback procedures:”

- b) In letter (b) the 4th sentence shall be replaced by the following sentence:

“The capacities on the bilateral Core bidding zones shall be defined based on the LTA capacity for each Core oriented bidding zone border, increased by the minimum of the two adjustments provided by the TSO(s) on each side of the bidding zone border, pursuant to Article 4(4(b)).”

- c) In letter (b) the 5th sentence shall be removed.

d) In letter (b) the 6th sentence shall be replaced by the following sentence:

“These capacities are then adjusted for long-term nominations pursuant to Article 21, to obtain the final parameters.”

Article 7 **Publication of data**

1. Article 25. Publication of data shall be amended accordingly:

a) In Article 25.2 (e) ii. shall be removed.

b) In Article 25.2 a new letter (g) shall be included and read accordingly:

“(g) The CCC shall include in its quarterly report as defined in Article 27(5) the flows resulting from net positions resulting from the SDAC on each CNEC and external constraint of the final flow-based parameters.”

c) In Article 25.3 in the first sentence the phrase “2(e)” shall be replaced by “2(f)” and be read accordingly:

“Individual Core TSO may withhold the information referred to in paragraph 2(d)iv), 2(d)v) and 2(f) if it is classified as sensitive critical infrastructure protection related information in their Member States as provided for in point (d) of Article 2 of Council Directive 2008/114/EC of 8 December 2008 on the identification and designation of European critical infrastructures and the assessment of the need to improve their protection.”

d) In Article 25.4 in the first sentence the phrase “2(e)” shall be replaced by “2(f)” and be read accordingly:

“Any change in the identifiers used in paragraphs 2(d)iv), 2(d)v) and 2(f) shall be publicly notified at least one month before its entry into force. The notification shall at least include:”

e) A new paragraph 7 shall be added and be read accordingly:

“Core TSOs shall provide Core regulatory authorities on a monthly basis the underlying capacity calculation and market coupling data related to the quarterly reports. The reporting framework shall be developed in coordination with Core regulatory authorities and updated and improved when needed.”

2. Article 27. Monitoring, reporting and information to Core regulatory authorities shall be amended accordingly:

a) In Article 27.5 in the first sentence between the number “20” and the word “and” the term “,25” shall be included and be read accordingly:

“The CCC, with the support of the Core TSOs where relevant, shall draft and publish a quarterly report satisfying the reporting obligations set in Articles 7, 20, 25 and 28 of this methodology.”

b) In Article 27.5 a new letter (d) shall be included:

“(d) according to Article 25(2) (g), Core TSOs shall report on flows resulting from net positions resulting from the SDAC on each CNEC and external constraint of the final flow-based parameters.”

Article 8 Timescale of implementation

Article 28. Timescale for implementation shall be amended accordingly:

In Article 28.3 the phrase “1 December 2020” shall be replaced by the phrase “28 February 2022” and shall be read accordingly:

“3. The TSOs of the Core CCR shall implement this methodology no later than 28 February 2022. The implementation process, which shall start with the entry into forces of this methodology and finish by 28 February 2022, shall consist of the following steps:”