# All NEMOs' proposal for the back-up methodology in accordance with Article 36(3) of the Commission Regulation (EU) 2015/1222 of 24 July 2015 establishing a guideline on capacity allocation and congestion management

**13 November 2017**

All NEMOs, taking into account the following

## Whereas

***Background***

(1) This document is a common NEMO proposal developed in cooperation with the relevant TSOs and in accordance with article 36 of Commission Regulation (EU) 2015/1222 establishing a guideline on capacity allocation and congestion management (hereafter referred to as the "CACM Regulation") for the back-up methodology for single day-ahead coupling (SDAC) and for the single intraday coupling (SIDC) (hereinafter referred to as the "Back-up Methodology").

(2) According to paragraph (21) of the recitals of the CACM Regulation *"Despite the creation of a reliable algorithm to match bids and offers and appropriate back-up processes, there may be situations where the price coupling process is unable to produce results. Consequently, it is necessary to provide for fallback solutions at a national and regional level to ensure capacity can still be allocated."*

(3) According to Article 36(3) of the CACM Regulation *"By 18 months after the entry into force of this Regulation, all NEMOs shall in cooperation with TSOs develop a proposal for a back-up methodology to comply with the obligations set out in articles 39 and 52 respectively".*

(4) According to Article 7(1)(h) of the CACM Regulation, NEMOs are responsible for establishing jointly with relevant TSOs back-up procedures for national or regional market operation in accordance with Article 36(3) of the CACM Regulation if no results are available from the MCO functions in accordance with Articles 39(2) and 52 of the CACM Regulation, taking into account fallback procedures provided for in Articles 44 and 50 of the CACM Regulation.

(5) According to Article 36 of the CACM Regulation "*The proposal for a methodology shall be subject to consultation in accordance with Article 12*".

(6) The NEMOs proposal for a Backup Methodology is prepared in cooperation with TSOs, taking into account the comments from the consultation, and is submitted to the Regulatory Authorities for approval no later than 18 months after the entry into force of the CACM Regulation, i.e. 14 February 2017.

(7) Decisions of the NEMO Committee in this proposal refers to decisions of All NEMOs coordinated via the NEMO Committee.

***Impact on the objectives of CACM Regulation***

(1) The proposed Back-up Methodology takes into account the general objectives of capacity allocation and congestion management cooperation described in Article 3 of the CACM Regulation.

(2) By requiring NEMOs to develop, implement and operate appropriate back-up procedures for each step of the day ahead (DA) and intraday (ID) market coupling process, the proposal aims at reducing the risk of market disruption associated with full or partial decoupling, and fulfils the requirement of "promoting effective competition in the generation, trading and supply of electricity".

(3) By requiring appropriate back-up procedures for the submission of cross-border capacity to the DA and ID MCO Function, and for appropriate NEMO and TSO validation of results, the proposed Back-up Methodology helps to promote the optimal allocation of cross-zonal capacity and to ensure the optimal use of the transmission infrastructure.

(4) By requiring NEMOs to develop, implement and operate appropriate back-up procedures for each step of the DA and ID market coupling process, and to apply the fallback procedures developed by TSOs, the proposal fulfils the objective of "ensuring operational security".

(5) The proposal fulfils the objective of "ensuring fair and non-discriminatory treatment of TSOs, NEMOs, the Agency, regulatory authorities and market participants" by requiring all NEMOs that are operational to follow the common procedures required by this Back-up Methodology, and by identifying and ensuring appropriate delegation for those procedures that are best agreed and applied locally.

(6) By requiring NEMOs to develop, implement and operate appropriate back-up procedures for each step of the DA and ID market coupling process, the proposal aims at maintaining the operational integrity of the single day-ahead and single intraday coupling and fulfils the objective of "contributing to the efficient long-term operation and development of the electricity transmission system and electricity sector in the Union".

(7) The proposal fulfils the objective of "respecting the need for a fair and orderly market and fair and orderly price formation" by requiring NEMOs to develop, implement and operate appropriate back-up procedures for each step of the DA and ID market coupling process.

(8) The proposal fulfils the objective of "creating a level playing field for NEMOs" by requiring all NEMOs that are operational to follow the common procedures required by this Back-up Methodology.

(9) The proposal fulfils the objective "providing non-discriminatory access to cross-zonal capacity" by requiring all NEMOs that are operational to follow the common procedures required by this back-up methodology.

Article 1

**Subject matter and scope**

The back-up processes accommodated in SDAC and SIDC as determined in this Back-up Methodology Proposal are the common proposal by all NEMOs in accordance with Article 36 of CACM Regulation.

Article 2

**Definitions**

***For the purposes of this proposal, the terms used shall have the meaning of the definitions included in Article 2 of Regulation 2015/1222, the other items of legislation referenced therein and MCO Plan. In addition, the following definitions shall apply:***

1. ***Market Coupling Session (MCS):*** means the processes followed by the NEMOs to perform the single day-ahead coupling.
2. ***DA MCO Function Service Provider:*** mean external party who provide technical services such as common communication system, common market coupling session service application, the Price Coupling Algorithm and all approved common provided services.
3. ***DA MCO Function System:*** mean the system needed to perform the DA MCO Functions. It comprises the PCR Matcher Broker (PMB).
4. ***Global issue:*** means operational incident during the MCS which jeopardizes all Operators to carry out the MCO Functions. Such incident is managed by the DA/ID Coordinator using common procedures.
5. ***Local issue:*** means operational incident outside the scope of MCO Function or during the MCS which jeopardizes only a single Operator ability to carry out the MCO Functions Such incident is managed by the Operator or NEMOs/TSOs using local/regional procedures.
6. ***CCC:*** means the coordinated capacity calculator as defined in CACM Regulation.
7. ***Central Admin*****:** means the NEMO role of performing operational tasks on the SOB module on behalf of the NEMOs collectively.
8. ***ID Coordinator / IC Single Point of Contact (SPOC)*****:** means the role that coordinates resolution of an operational incident on behalf of all NEMOs and TSOs.

9. ***ID MCO Function Service Provider:*** mean external party who provide technical services such as common communication system, common market coupling session service application, the Continuous Trading Matching Algorithm and all approved common provided services.

10. ***ID MCO Function System:*** mean the system needed to perform the ID MCO Functions.

11. ***Partial / Full decoupling*****:** mean regional / local matching of orders under market conditions regulated by TSOs fallback procedures pursuant to Article 44 of the CACM Regulation**.**

Section 1

## *Single Day-ahead Coupling back-up procedures and steps*

Article 3

### General description of SDAC backup processes

1. The SDAC is based on a decentralized solution with a rotating Coordinator as responsible for leading the DA MCO Function procedures and where a rotating Backup Coordinator shall be able to take over the Coordinator role in any process of the Market Coupling Session. In addition, other Operators that are part of the Coordinator/Backup Coordinator rotation, are also able to take over the Coordinator role in any process of the Market Coupling Session, in order to minimise the possibility of interruption.

2. The procedures for the Market coupling Session are supported by the common backup methodologies and led by the Coordinator. Every Operator who will act as both Coordinator and Backup Coordinator according to an approved rotational scheme calendar must ensure the needed ability and technical resources to be able to fully perform these roles. Requirements for these common backup methodologies are described in this Back-up Methodology.

3. The resolution of the Local Issues shall follow local/regional NEMOs and TSOs procedures which are out of the scope of this Back-up Methodology.

4. NEMOS shall sufficiently assure the well-functioning of the backup methodology and operations with regular training tests. TSOs shall be also invited to participate in some of these training tests. Purpose of these trainings is a constant refresh of common procedures to be used by all Operational NEMOs as well as their improvement (preventive analysis of possible real situations during a Market Coupling Session). Test can be classified as follows:

    a. *Regular NEMO training tests:* as preventative measure, all Operational NEMOs shall test the application of the backup procedures in real situations on testing installations of DA MCO Function Systems.

    b. *Regular NEMO-TSOs training tests*: as preventative measure, all Operational NEMOs in cooperation with TSOs shall jointly test the application of the backup procedures in real situations on testing installations of the DA MCO Function Systems and TSO´s systems.

    c. *Regular communication tests with DA MCO Function Service Providers*: as preventative measure, Operational NEMOs, in cooperation with DA MCO Function Service Providers shall test technical services to assure well-functioning of the backup-methodology and operation of the MCO Function. Tests shall include technical services needed to complete SDAC processes on a daily basis such as common communication system, the PCR Matcher Broker, the Price Coupling Algorithm and all approved common provided services.

d. Stress tests: Operational NEMOs will regularly perform stress tests in order to analyse proportional growth in the technical services, information to be used by the Price Coupling Algorithm as well as the results produced by the Price Coupling Algorithm.

5. Intermediate timelines are the timelines not defined by CACM but established by Operational NEMOs for other MCS sub processes such as but not limited to: the results calculation process, the operators result confirmation or the TSOs results confirmation. These timelines denote Operators from using normal procedures to the need to apply back-up procedures, if needed.

6. During the MCS impacted parties may mutually agree derogations from the intermediate timelines in extreme circumstances if this can reasonably be expected to avoid a Partial or Full decoupling and to not jeopardize the nomination deadline. However, the deadlines established in CACM and any other approved Methodology must be always complied with. Extreme circumstances shall refer to situations when already applying backup procedures and the deadlines to apply fallback procedures are very close to be reached.

7. To assess ex-post procedures according to a well-defined and transparent process, and as they cannot be accurately defined ex-ante, every incident which can impact the obligations set out in article 39 of the CACM Regulation, shall be presented in the relevant stakeholder forums organized in accordance with Article 11 of CACM Regulation. This ex-post analysis shall be used to improve the procedures in case they were not followed properly.

8. The NEMOs shall maintain the procedures and make them available to NRAs on request. The provision and application of the day to day management of the single day-ahead and intraday coupling will follow as described in the NEMO "Algorithm proposal" document and specifically in Articles 8(1), 8(2) and 8(4).

9. As a general rule for NEMOs, once a Global Issue during SDAC occurs the Coordinator is responsible for triggering an incident committee, during which the problem is discussed among Operational NEMOs and the DA MCO Function Service Providers may be invited to solve the problem, restoring the status of the system. In any case, should also TSO directly be involved in the occurrence, it is always on NEMO side the responsibility to communicate with the Coordinator and potentially apply the back-up procedure.

10. In case of problems during the normal processes of the MCS, and before deadlines agreed with TSOs to make use of fallback procedures are reached, NEMOs shall apply, in cooperation/coordination with TSOs, backup procedures in order to maintain the coupled markets as much as possible.

11. TSOs shall apply, in cooperation/coordination with NEMOs, fallback procedures as soon as it is clear that the single day-ahead coupling process (including backup processes) is unable to produce results, or decoupling deadlines agreed with NEMOs are reached. Delivery deadlines to produce results and details of cross-zonal capacity and allocation constraints to be respected shall be part of the NEMO "DA Algorithm Requirements" document in accordance with Article 37(1)(a) of the CACM Regulation and shall reflect a reasonable balance between the objective of maintaining the coupled markets where possible and the constraints on the post-coupling tasks, including nomination.
    Decoupling deadlines shall be outlined in the relevant operational procedures included in the NEMO DA Operational Agreement referred to in section 5.1.2 point (b) of the MCO Plan and in the relevant local, regional or European agreements between NEMOs and TSOs on the management of the pre and post coupling process, referred to in section 5.1.4 point 2 of the MCO Plan.

12. TSOs in coordination with NEMOs shall implement procedures for the monitoring and initiating of fallback procedures for Full and Partial decoupling.
    All procedures that take place after a Partial or Full decoupling shall be operated by TSOs in each CCR pursuant to Art. 8.2(i) of the CACM Regulation and in accordance with fallback procedures established pursuant to Art. 44 of the CACM Regulation.

13. Article 39 of the CACM Regulation lists the main elements that are inputs or results of the Price Coupling Algorithm. They have been classified in four groups:

    a. Information to be used by the Price Coupling Algorithm: allocation constraints established in accordance with Article 23(3) of CACM Regulation; cross-zonal capacity results validated in accordance with Article 30 of CACM Regulation and orders submitted in accordance with Article 40 of CACM Regulation.
    b. Results to be produced by the Price Coupling Algorithm: a single clearing price for each bidding zone and market time unit in EUR/MWh; a single net position for each bidding zone and each market time unit and the information which enables the execution status of orders to be determined.
    c. Processes to be performed by NEMOs to ensure the accuracy and the efficiency of the results.
    d. Processes to be performed by TSOs to ensure that the results are consistent with cross-zonal capacity and allocation constraints.

14. The following requirements describe back-up measures regarding common communication systems, files exchanged during the Market Coupling Session, Price Coupling Algorithm and all processes needed by Operators to ensure that the information used by the Price Coupling Algorithm is available when something fails with the normal way of producing the information.

Article 4

**Requirement for back-up common communication system**

1. In a normal Market Coupling Session Operators shall establish communication among each other through a main file exchange mechanism.

2. All Operators shall establish at least one alternative connection among all Operators through back-up file exchange mechanism. If a problem occurs with the main file exchange mechanism the distribution of data files will be done with the primary back-up file exchange mechanism.

3. Different alternative mechanisms to exchange anonymous input and output data amongst Operators shall be established taking into account the technical solutions available.

4. Confidential data shall be always exchanged in a secured way.

Article 5

**Requirement for back-up datacentre**

1. In a normal Market Coupling Session Operators perform the MCO Functions in a primary datacentre, which shall be tested and certified by each Operator, to fulfil minimum performance requirements jointly established by all NEMOs in order to guarantee sufficient performance of the Price Coupling Algorithm.

2. Each Operator is entitled to establish a secondary datacentre on a voluntary basis.

3. If a problem occurs with the primary datacentre of an Operator and the secondary datacentre is established by this Operator, such Operator may switch to the secondary datacentre, to continue with the Market Coupling Session in automatic mode. The switch process shall be designed in a way to prevent data loss.

4. The relevant Operator shall test and certify the secondary datacentre in a same way as primary datacentre

in order to guarantee the same minimum performance as the primary datacentre.

Article 6

**Requirement for Backup Coordinator**

1. In a normal Market Coupling Session the operation of DA MCO Function is led by one Operator who shall act as a Coordinator while another Operator shall act as a Back-up Coordinator.

2. At any moment during the MCS, in case of inability of the Coordinator to continue the MCS the Backup Coordinator shall take over the Coordinator role.

3. In case the Backup Coordinator cannot take over the Coordinator role (for any reason), any other Operator having the Price Coupling Algorithm implemented may take over the Coordinator role. All Operators shall jointly decide which Operator shall take over the Coordinator role in such particular situation.

Article 7

**Requirement for cross zonal capacities for allocation**

1. The cross zonal capacities and/or allocation constraints shall be provided to Operators by corresponding TSOs. This step is performed on CCR level and therefore out of scope of this Back-up Methodology.

2. In a normal Market Coupling Session, each Operator shall establish communication between Operator and the DA MCO Function systems for delivery of cross zonal capacities or allocation constraints file.

3. All Operators shall establish at least one alternative connection between Operators and the DA MCO Function systems for delivery of cross zonal capacities or allocation constraints file through back-up file exchange mechanism. If a problem occurs with the cross zonal capacities or allocation constraints file delivery to DA MCO Function systems, the delivery shall be done with the back-up file exchange mechanism.

4. This alternative mechanism to deliver cross zonal capacities or allocation constraints file to DA MCO Function systems shall be established taking into account the technical solutions available.

Article 8

**Requirement for aggregated anonymized order books**

1. The anonymized aggregated order books per Bidding Zone and per NEMO are inputs that shall be provided by Operators. The steps of order reception and preparation of aggregated order books are performed by each NEMO locally and therefore out of scope of this Back-up Methodology.

2. In a normal Market Coupling Session, each Operator shall establish communication between Operator and the DA MCO Function systems for delivery of aggregated order books.

3. All Operators shall establish at least one alternative connection between Operators and the DA MCO Function systems for delivery of aggregated order books through back-up file exchange mechanism. If a problem occurs with the aggregated order book delivery to DA MCO Function systems, the delivery shall be done with the back-up file exchange mechanism.

4. This alternative mechanism to deliver aggregated order books to DA MCO Function systems shall be

established taking into account the technical solutions available and shall be secured in order to ensure full confidentiality.

Article 9

**Requirement for algorithm results**

1. The Coordinator and if needed with assistance of the relevant DA MCO Function Service Provider shall analyse any problem identified during the Price Coupling Algorithm computation process.

2. All MCS Operators and if needed with assistance of the relevant DA MCO Function Service Provider shall perform all reasonable actions in order to fixed any problem identified during the Price Coupling Algorithm computation process.

3. NEMOs based on DA MCO Function Service Provider recommendation and when there is a risk that the Price Coupling Algorithm is not able to produce results may use an *alternative pre-tested configuration*. *Alternative pre-tested configurations* correspond with different prepared Price Coupling Algorithm configurations as further described in the NEMO "DA Algorithm Requirements" document.

4. DA MCO Function Service Provider shall test and provide Alternative pre-tested configurations to all Operators in advance.

Article 10

**Requirement for Operators results confirmation**

1. The confirmation/rejection is a validation that assures the accuracy and the efficiency of the Price Coupling Algorithm results.

2. Each Operator is responsible for the validation of its own results in and linked to the bidding zones where they are active and have order books.

3. In a normal Market Coupling Session, each Operator shall establish communication between Operator and the DA MCO Function systems for delivery of confirmation/rejection.

   When a NEMO rejects the Results common agreed procedures are available for checking the reasons of rejection. The relevant operational procedures included in the DA procedures agreed by all NEMOs referred to in section 5.1.2 point (b) of the MCO Plan, and in the relevant local, regional or European agreements between NEMOs and TSOs on the management on the pre and post coupling process, referred to in section 5.1.4 point 2 of the MCO Plan, provide possible identified reasons of rejection and procedural steps to apply in these situations.

4. All Operators shall establish at least one alternative connection between Operators and the DA MCO Function systems for delivery of confirmation/rejection through back-up file exchange mechanism. If a problem occurs with the confirmation/rejection delivery to DA MCO Function systems, the delivery shall be done with the back-up file exchange mechanism.

5. This alternative mechanism to deliver confirmation/rejection to DA MCO Function systems shall be established taking into account the technical solutions available.

Article 11

**Requirement for TSOs results confirmation**

1. The TSO confirmation/rejection is a TSO or Market Participant validation that assure that the Price Coupling Algorithm results are consistent with cross-zonal capacity and allocation constraints.

2. The TSO confirmation/rejection shall be provided to Operators by corresponding TSOs. This step is performed on CCR level and therefore out of scope of this Back-up Methodology.

3. In a normal Market Coupling Session, each Operator shall establish communication between Operator and the DA MCO Function systems for delivery of TSO confirmation/rejection.

4. When a TSO rejects the Results common agreed procedures are available for checking the reasons of rejection. The relevant operational procedures included in the NEMO DA Operational Agreement referred to in section 5.1.2 point (b) of the MCO Plan, and in the relevant local, regional or European agreements between NEMOs and TSOs on the management on the pre and post coupling process, referred to in section 5.1.4 point 2 of the MCO Plan, provide possible identified reasons of rejection and procedural steps to apply in these situations.

5. All Operators shall establish at least one alternative connection between Operators and the DA MCO Function systems for delivery of TSO confirmation/rejection through back-up file exchange mechanism. If a problem occurs with the TSO confirmation/rejection delivery to DA MCO Function systems, the delivery shall be done with the back-up file exchange mechanism.

6. This alternative mechanism to deliver TSO confirmation/rejection to DA MCO Function systems shall be established taking into account the technical solutions available.

Article 12

**Requirement for timings**

1. Latest times to perform backup procedures described in this Backup methodology are jointly established by all Operational NEMOs and where relevant all TSOs in the operational procedures, but also established in the CACM Regulation, and shall be defined at least for the following deadlines:
    a. Deadline established according to Art. 46 of the CACM Regulation to receive the capacity allocation information for all the interconnections needed.
    b. Deadline established according to Art. 47 of the CACM Regulation to receive the bids and offers.
    c. Deadline established in the procedures for algorithm start. The results calculation process is started at a predefined moment agreed by all Operators.
    d. Deadline established in the procedures for Operators results confirmation. At an agreed time, the Operators submit the results confirmation.
    e. Deadline established in the procedures for TSOs results confirmation. At an agreed time, the Operators submit the results confirmation.
    f. Deadline established according to Art. 48 of the CACM Regulation to publish the results.
    g. Deadline to deliver the results, as specified in algorithm requirements established pursuant to Art. 48 of CACM Regulation.
    h. Deadline for calculating scheduled exchanges is established according to Art. 43(2) of the CACM Regulation.

Article 13

**Requirements for technical support**

1. In a normal Market Coupling Session, each Operator shall be ready to carry out the DA MCO Functions without additional technical support from any DA MCO Function Service Provider.

Section 2

***Single Intraday Coupling back-up procedures and steps***

Article 14

**General description of SIDC backup processes**

1. The SIDC is defined as a (largely) centralized solution. This architecture, which differs from the DA architecture, results in a different set of back-up procedures compared to those used for SDAC.

2. The resolution of the Global Issues shall be carried out according to the common back-up methodologies described in this Backup Methodology.

3. The resolution of the Local Issues shall follow local/regional NEMOs and TSOs procedures which are out of the scope of this Back-up Methodology.

4. NEMOS shall sufficiently assure the well-functioning of the backup methodology and operations with regular tests. TSOs shall be also invited to participate in some of these training tests. Purpose of these tests is a constant refresh of common procedures to be used by all NEMOs as well as their improvement (preventive analysis of possible real situations during a Market Coupling Session). Test can be classified as follows:

    a. *Regular NEMO training tests:* as preventative measure, all Operational NEMOs shall test the application of the backup procedures in real situations on testing installations of ID MCO Function Systems.

    b. *Regular NEMO-TSOs training tests*: as preventative measure, all Operational NEMOs in cooperation with TSOs shall jointly test the application of the backup procedures in real situations on testing installations of the ID MCO Function Systems and TSO´s systems.

    c. *Regular communication tests with ID MCO Function Service Providers*: as preventative measure, Operational NEMOs, in cooperation with ID MCO Function Service Providers shall test technical services to assure well-functioning of the backup-methodology and operation of the MCO Function. Tests shall include technical services needed to complete SIDC processes on a daily basis such as common communication system, common market coupling session service application, the Continuous Trading Matching Algorithm and all approved common provided services.

    d. *Stress tests*: Operational NEMOs will regularly perform stress tests in order to analyse proportional growth in the technical services, information to be used by the Continuous Trading Matching Algorithm as well as the results produced by the Continuous Trading Matching Algorithm.

5. To assess ex-post procedures according to a well-defined and transparent process, and as they cannot be accurately defined ex-ante, every incident which can impact the obligations set out in article 52 in the

CACM Regulation, shall be presented in the relevant stakeholder forums organized in accordance with Article 11 of CACM Regulation. This ex-post analysis shall be used to improve the procedures in case they were not followed properly.

6. The NEMOs shall maintain the procedures and make them available to NRAs on request.

7. As a general rule for NEMOs, once a Global Issue during SIDC occurs the ID Coordinator is responsible for triggering an incident committee, during which the problem is discussed among Operational NEMOs and the ID MCO Function Service Providers may be invited to solve the problem, restoring the status of the system. In any case, should also TSO directly be involved in the occurrence, it is always on NEMO side the responsibility to communicate with the ID Coordinator and potentially apply the back-up procedure.

8. Reason to request support of the ID MCO Function Service Providers are outlined in the relevant procedures included in the NEMO ID Operational Agreement and in the relevant local, regional or European agreements between NEMOs and TSOs on the management on the pre and post coupling process, referred to in section 5.2.4 point 4 of the MCO Plan.

9. If the party that performs the Central Admin or ID Coordinator role experiences difficulties performing this role, then another party capable of assuming this role shall take over relevant role. All Operators shall jointly decide which party shall take over the relevant role in such situation.

10. For every regular operational procedure at least one backup operational procedure or process shall be available (which may include local procedures), which shall be followed in case the regular procedure cannot be followed.

Article 15

**Requirement for back-up communications**

1. This section describes how to solve technical problems that may occur in the main communication line between the related parties and the ID MCO Function Service Provider responsible for hosting of the ID MCO Function System.

2. According to the centralized architecture of the SDAC, all NEMOs, their CCPs, CCCs and TSOs (from now on "parties") shall be connected to the central ID hosting service provider through both a primary and secondary communication line to ensure redundancy.

3. An automatic or manual switch between primary and secondary communication line will be done by the affected party when an error is detected in the primary line.

4. As an additional backup measure, TSOs can act as a backup for the relevant CCCs or for other TSOs following local arrangements.

5. For the Global Issues during SIDC related to communication, the support of the ID Coordinator and/or the Central Admin will be requested. The affected parties shall analyse the communication problem and shall contact the ID MCO Function Service Provider responsible for communication lines.

Article 16

**Requirement for back-up datacentre**

1. During normal operation, Operators will perform the ID MCO functions in a primary data centre.

2. If a problem occurs with the primary datacentre, the ID MCO Function Service Provider responsible for hosting of the ID MCO Function System shall automatically switch to the secondary datacentre to continue with operations. The switch process shall be designed in a way to prevent data loss.

3. The secondary data centre shall have the same performance as the primary data centre.

Article 17

**Requirement for database back-up**

1. Backups of the database of the ID MCO Function System are made at regular intervals.

2. If a problem occurs with the database on the ID MCO Function System which affects database both in the primary datacentre and the secondary datacentre the ID MCO Function Service Provider responsible for shall restore latest database backup.

Article 18

**Requirement for Closing Areas or Interconnectors**

1. In case when an issue occurs that is confined to one or more, but not all, areas or to one or more, but not all, interconnectors of such incidents, the concerned NEMOs shall close the affected area from the SOB and/or the relevant TSO(s) may close the interconnectors of the affected area in order to isolate the problem and prevent its proliferation.

2. In such situation the continuous trading in all other areas, that are not affected by the issue and on all other interconnectors that are not affected by the issue shall continue.

Section 3

***General requirements***

Article 19

**General obligation in the event of Partial or Full decoupling**

1. In those instances, where the fallback procedures developed by TSOs (according to Article 44 of Regulation 2015/1222, but also Articles 45 and 57 when relevant) describe national or regional coupling (in form of Partial or Full decoupling), NEMOs commit to apply the above mentioned procedures.

Article 20

**Timescale for implementation**

1. Upon approval of the present methodology, each NEMO shall publish it on the internet in accordance with Article 9(14) of CACM Regulation.

2. The NEMOs shall implement the Back-up Methodology Proposal in a Bidding Zone with respect to the implementation of the SDAC/SIDC immediately after the approval by the NRAs of the Back-up Methodology Proposal, and with respect to the amendment and operation of the SDAC/SIDC immediately after:

    a. the MCO function has been implemented in accordance with Article 7(3) of the CACM Regulation, and,

    b. the arrangements to accommodate more than one NEMO developed in accordance with Articles 45 and 57 of the CACM Regulation, are implemented in relevant Bidding Zone where more than one NEMO is designated and/or offers trading services.

Article 21

**Language**

1. The reference language for this proposal shall be English. For the avoidance of doubt, where NEMOs need to translate this proposal into their national language(s), in the event of inconsistencies between the English version published by the NEMOs in accordance with Article 9(14) of the CACM Regulation and any version in another language, the relevant NEMOs shall be obliged to dispel any inconsistencies by providing a revised translation of this proposal to their relevant national regulatory authorities.