Network Code on Emergency and Restoration

Public Workshop 4

12 February 2015 - Brussels

Drafting Team Emergency and Restoration

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Agenda

1	Introduction and network codes status	13:00-13:15	**Konstantin Staschus (**ENTSO-E Secretary-General)
2	General provisions - Major revisions	13:15-14:00	**Laurent Lamy** (NC ER Drafting Team convenor) **Lukas Guertler** (NC ER Drafting Team member)
3	System defence plan	14:00-15:00	**Tudal Loxq** (NC ER Drafting Team member)
4	Restoration plan	15:00-15:30	**Martin Pistora** (NC ER Drafting Team member)
	Coffee break	15:30-15:45	
5	Market interaction	15:45-16:15	**Fabian Heus** (NC ER Drafting Team member)
6	Information exchange and communication & Compliance testing and review	16:15-16:45	**Laurent Lamy** (NC ER Drafting Team convenor)
7	Conclusion Summary of the workshop	16:45-17:00	**Geoffrey Feasey** ENTSO-E Corporate Affairs Manager

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Introduction and network code status

Konstantin STASCHUS

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Network Codes update and planning 1/3

- CACM Guideline was successfully adopted by Electricity Cross-Border Committee on 5 December with a large consensus

- CACM Guideline is expected to enter into force in Q2 2015

- RfG: positive opinions in inter-service consultation, ECBC discussion on 4 February; translation will take about 8 weeks

Network Codes update and planning 2/3

- DCC: currently revising code, adapting according to CACM; by Q2 2015 comitology discussions

- HVDC: EC plans to organise a stakeholder workshop 12 February, inter-service consultation before summer, comitology to start immediately after summer

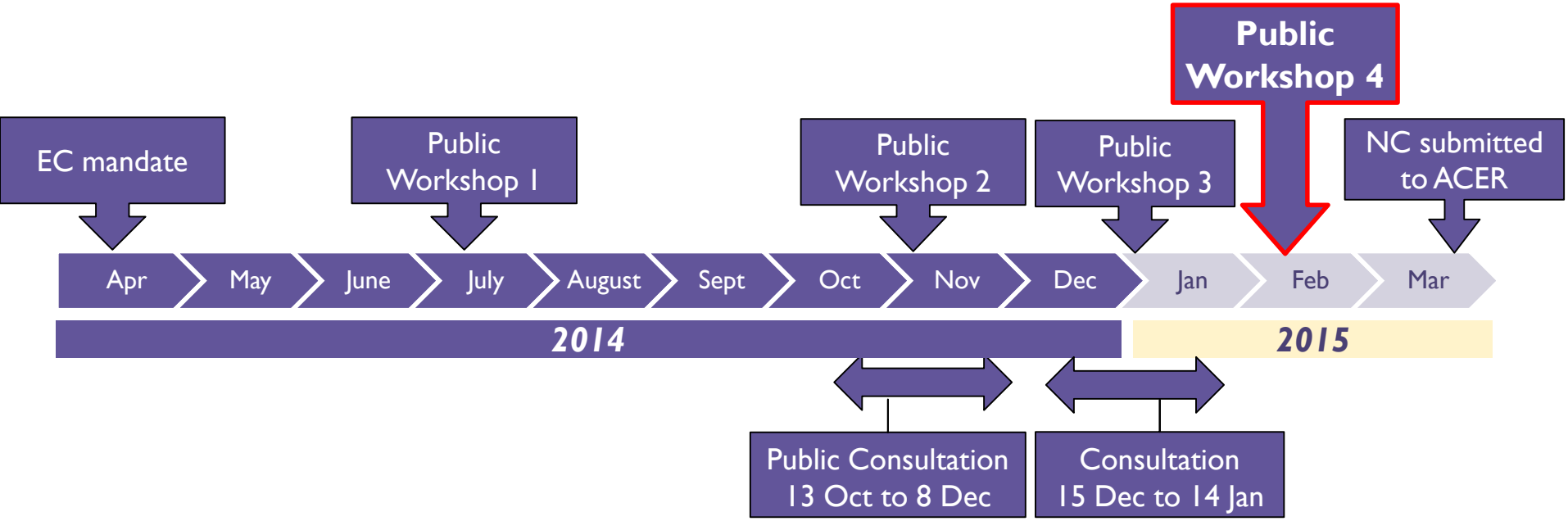
- FCA: CACM experience taken onboard; inter-service consultation ready before summer, EC will try to discuss with Member States before summer break

Network Codes update and planning 3/3

- Operational network codes
  - Inter-service consultation after summer
  - Comitology process for the system operation regulations in Q4/2015
  - To be adopted as guidelines
  - Merging operational codes, EC plans to propose a draft in summer
  - EC may hold a stakeholder workshop on proposed draft
  - NC ER could join the SO package, if it progresses according to all plans

- Balancing code: ACER new opinion likely in May

Network Code ER Status



- **About 1500 comments from the consultations**
- **Synthesis of the comments in Appendix 4 of the Supporting Document**
- **Updated draft NC ER and Supporting Document for today's workshop**

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General Provisions

Lukas GUERTLER
Laurent LAMY

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Summary of revisions

New text to address **national scrutiny** issues:

- Notification to NRAs is without prejudice to the competences that Member States granted to NRAs or other competent authorities (notification or approval of the full plans or approval of these concepts, or the plans).
- For the plan concept: it covers how the measures will be implemented.

Consultation – Coordination:

- Clarification in Article 5 of the objectives of each process - Reinforcement of the "justification" step in the consultation process

Summary of revisions

Efficiency:

- Clarification in Art. 3(3) to overall efficiency

- Efficiency means to take in the concrete situation the measures which is adequate, with the lowest possible impact to the parties and the lowest costs overall in the sense of national economy -> the minimal necessary measure

- Nevertheless for one single party it can lead to a higher impact and higher costs but over all to the lowest impact and the lowest costs

Scope – Art. 1

- NC ER shall apply to new and existing type A PGM providing they qualify as Defence Provider and/or Restoration Provider (new concept).

New concept introduced: Service Provider

- New concept introduced:
  - **Service Provider** is a legal entity with a legal or contractual obligation to provide a service contributing to one or several measures of the Plan.

- National implementation with regulatory oversight (NRA approval):
  - Identification of the measures to be delivered by Service Providers.
  - Definition of conditions: characteristics of the service to be provided, conditions for aggregation, other.

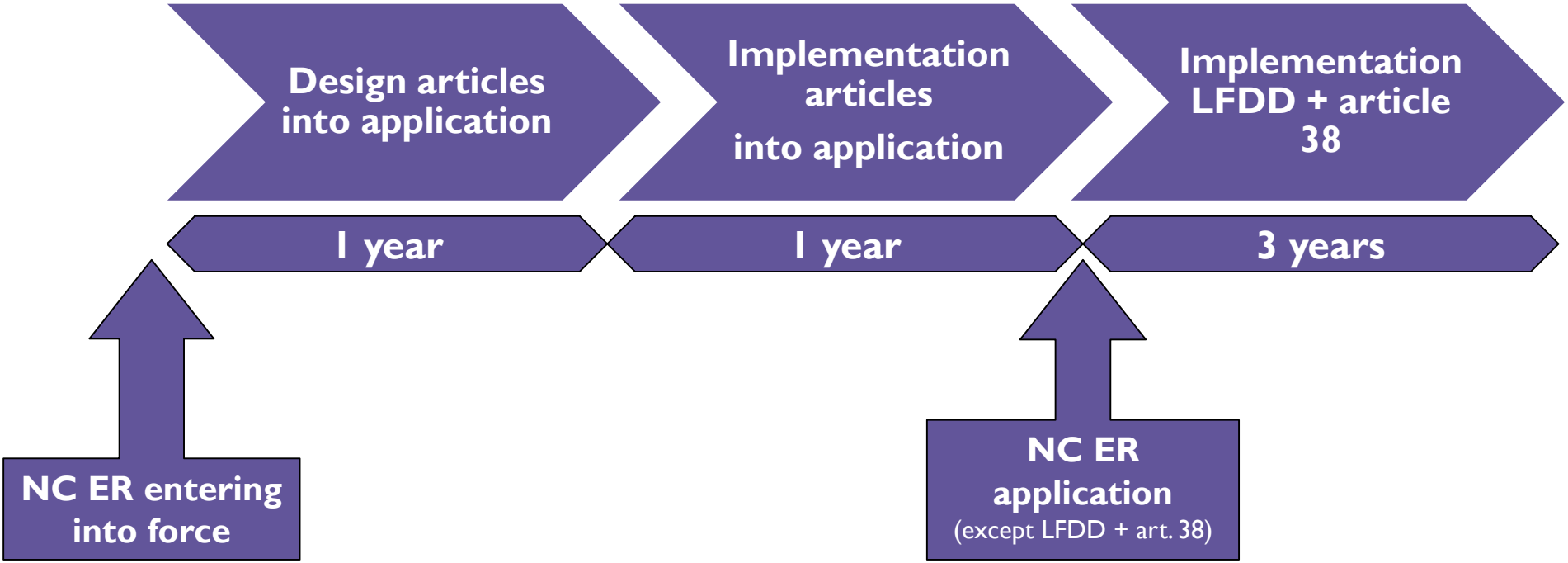
- Some measures of the plans are based on capabilities that are mandatory for the SGU as in NC RFG, NC DC and NC HVDC:
  - These capabilities can be directly used by the TSO in its plans
  - In the design, the TSO identifies these capacities and the concerned grid users

Service provider – examples (non exhaustive list)

Type of User	Capability	Status	Use of the capability
PGM type C and D	Follow an active power set-point instruction	Mandatory according to NC RFG	Significant Grid User "identified" in the plan
PGM type B	Follow an active power reduction instruction	NC RFG: communication link from Network Operator to PGM **not mandatory** Case 1: Mandatory in national legislation Case 2: **Not mandatory**	Case 1: SGU "identified" in the defence plan Case 2: Service Provider on contractual basis
PGM type A	Follow an instruction to cease active power	NC RFG: communication link from Network Operator to PGM **not mandatory** Case 1: Mandatory in national legislation Case 2: **Not mandatory**	Case 1: Service Provider on legal basis Case 2: Service Provider on contractual basis
Demand Facility	Demand Side Response	NC DC: on a voluntary basis	Service Provider on contractual basis

Final provisions

Dates for entering into application



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System Defence Plan

Tudal LOXQ

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Summary of revisions

- More detailed description of the roles and responsibilities of the different parties including the role of the Defence Service Provider.
  - Activation of measures «in coordination» with TSOs, DSOs, SGUs and Defence Service Providers – Art. (10.1)
- More detailed regulatory oversight arrangements.
- Measures:
  - More detailed conditions for activation including ROCOF – Art. 13(5)
  - Automatic over-frequency control scheme: TSOs to define the settings of the scheme one year after the code enters into force – Art. 14(1)
  - Automatic scheme against voltage collapse: alignment with NC DC
- Assistance for active power procedure – Art. 18: changes for clarity and new text about the use of the interconnectors.

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Restoration Plan

Martin PISTORA

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Summary of revisions

- More detailed description of the roles and responsibilities of the different parties including the role of the Restoration Service Provider.
  - Activation of measures «in coordination» with TSOs, DSOs, SGUs and Restoration Service Providers – Art. (22.1)
- More detailed regulatory oversight arrangements.
- More details about the roles and the responsibilities of TSOs for:
  - Re-energisation strategy
  - Frequency management
  - Resynchronisation

  to ensure efficient coordination and fast restoration.

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Market Interactions

Fabian HEUS

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Market Interaction – Underlying principles

- NC ER under Framework Guidelines for System Operation.

  Thus we are dealing with the question: *How and When should System Operations have an influence on market activities*? and **not** the other way around.

- NCs describe relations between *regulated parties* (TSO, DSO) and *users* (connected parties, trader, BRP, BSP, NEMO…)

- Commercial domain deals with all interactions between connected parties and their BRP, BSP, trader, NEMO….

- Supplier of last resort-issue (bankrupt; liquidity problems)?
  - **Very serious problem!**
  - TSO can facilitate to provide a (short term) solution. Does not lead to suspension.
  - Regulating these problems does not belong in this NC.
  - Administrative problems need to be solved, but especially by these parties themselves.

Market Interaction – revisions (1)

- New concept introduced ***Market Activities Restoration Triggers***
- **Timelines**: when, after the entry into force of the Code, the TSOs shall develop the triggers and the communication procedure subject to NRA approval
- When a trigger is met, a **waiting period** is in place (National arrangements)
- Trigger: **all** Cross Zonal capacities (instead of **significant amount of**)
- **Assessment** of the Triggers (monitoring)

Market Interaction – revisions (2)

- TSO shall be entitled to request Significant Grid Users to operate at an Active Power set point (instead of keeping their last Active Power set point).

- **Communication**
  - Inclusion of third parties like Settlement Administrators, Capacity Calculators (according to GL CACM, NC EB).
  - Also third parties should inform its members/customers.
  - **More detailed description of the responsibilities between NEMO and TSO.**

- Settlement: *regulatory period* replaced with *regulatory grid access tariffs.*

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Information Exchange and Communication, Tools and Facilities

Laurent LAMY

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Summary of revisions

- Art. 37: Additional requirements for TSOs to provide information to :
  - Transmission Grid connected DSOs
  - Defence Service Providers
  - Restoration Service Providers

- Art. 37: More details about the information to NEMOs and NRAs.

- Art. 38: New requirement for blackout proofed data communication system to exchange the necessary information for Restoration Plan (for TSOs, DSOs, SGUs accord 20(8) and Restoration Service Providers).

- Art. 39: Backup power supply for substations changed to **24h** to align it with the other time requirements for backup power supply.

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Compliance testing and review

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Summary of revisions

- Changes to clarify that TSO installations are also covered by the chapter.
- Use of the “Service Provider” concept in the definition of the scope of the testing.
- The tests plans are defined in consultation with DSOs, Services Providers, and Significant Grid Users involved in the Plans.
- The testing periodicity of LFDD relays shall be defined at national level.
- More detailed provisions for the tests of communication channels.

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Conclusion

Geoffrey Feasey

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