

ENTSO-E Stakeholders Workshop on Load-Frequency Control & Reserves Network Code (LFC&R NC)

Minutes

12 July 2012

Participants:

Name	Organization	Name	Organization
Dafydd Ab Iago	Argus Media	Monica Aliano	Eindhoven University of Technology
Margareta Bergström	EI	Maxime Buquet	GE Energy
Marcel Cailliau	GDF SUEZ	William Chan	Air Liquide
Florian Chapalain	EDSO	Bram De Wispelaere	EDF Luminus
Olgan Durieux	ORES	Knut Eggenberger	ELPEC
Jakub Fijalkowski	e-control	Juan González Lara	Endesa
Celine Herion	CECED	Eric Hsieh	A123 Systems, Inc.
Britta Johnig	RWE Power	Gert Jüchter	EWE NETZ GmbH
Nicolas Kuen	Electrabel	Alexander Kronimus	CEFIC
Marc Malbrancke	CEDEC	Olivier Lamquet	CES
Akihiro Matsuta	The Center for European Policy Studies	Pavla Mandatova	Eurelectric
Herve Meljac	EDF	Javier Meco	Endesa
Joel-Remy Nicolas	EDF-DPI-DTG	Geert Meynckens	Ineos
Raimo Peltola	Fortum	Ruud Otter	Vereniging Energie
Iván Pineda	EWEA - The European Wind Energy Association	Sebastian Pielken	Bundesnetzagentur
Eckard Quitmann	Enercon	Andreas Pointvogl	APG
Jose Luis Ruiz	Endesa	Marco Raimondi	Enphase Energy srl
Nina Scholz	E.ON AG	Juan Carlos Rucian	Iberdrola Generacion SA
Daniel Souque	EDF	Jean-Claude Schwartz	European Commission - DG Energy
Jorge Tello	Gas Natural Fenosa	Jerome Eduard Steyn de Haan	Eindhoven University of Technology / TenneT TSO
Pieter Tielens	ESAT	Nita Tennila	Aula Europe
Giovanni Valtorta	ENEL Distribuzione	Ulrich Tomschi	Siemens
Judit Zegnal	BruxInfo	William Webster	RWE

Andreas Walczuch	Amprion	Frank Reyer	Amprion
Karine Rubiolo	RTE	Pavel Zolotarev	TransnetBW
Peter Campbell	ENTSO-E	Jan Voet	Elia
Nicolas Roger-Machart	ENTSO-E	Edwin Haesen	ENTSO-E
Olivier Bronckart	ENTSO-E	Marc Copley	ENTSO-E

Agenda:

N°	Subject	Action	Who
1.	Welcome		Olivier Bronckart
2.	Informal discussion to listen to Stakeholders' expectations	Discussion	Mark Copley, all
3.	Final report of ENTSO-E Ad-hoc Team Operational Reserves	Presentation	Frank Reyer
4.	Scope of LFC&R NC	Presentation	Pavel Zolotarev
5.	First informal draft of LFC&R NC <ul style="list-style-type: none"> • Questions for the Workshop 	Presentation	Karin Rubiolo
6.	Questions & remarks of the Stakeholders	Discussion	All
7.	Conclusions		Olivier Bronckart

1. Welcome

Olivier Bronckart welcomes the participants to the 1st workshop on the network code on load frequency control.

2. Informal discussion to listen to Stakeholders' expectations

Mark Copley introduces the participants to this item of the agenda and welcomes them to freely pose questions and remarks.

Remarks given:

- TSOs should act as one, the current draft is good starting point, NC should more specifically be described, more obligations to harmonize for TSOs needed, minimum product definition desired

- RWE S&T UK/ EFET: need for consultation is important / view of trader: precision is important (procurement, dispatch, handover from market to system operation) and transparency
- Elpec: TSOs shall make use of the chance to break up national rules by this European legislation

3. Final report of ENTSO-E Ad-hoc Team Operational Reserves

Frank Reyer highlights that the current draft is a very early draft and that this early stakeholder involvement is helpful to ease discussion. However it is at the same time a discussion of a work in progress.

Frank Reyer leads through the presentation on the Final report of ENTSO-E Ad-hoc Team Operational Reserves.

He highlights in this respect the special importance of the introduction of the new common terminology Frequency Containment Reserves (FCR), Frequency Restoration Reserves (FRR) and Replacement Reserves (RR) which have already been used e.g. in the Framework Guidelines on Balancing. These terms are introduced as a harmonized approach in ENTSO-E that will also be used in LFC&R NC.

Frank Reyer highlights the importance of harmonized concepts, while the actual parameters have to differ from Synchronous Area to Synchronous Area due to technical differences.

Questions posed with reference to the AHT Operational Reserves Document:

- Enercon: Inertia is mentioned in the RFG code, is it covered by the LFC&R NC? Answer: not for the time being
- Is the relationship of FCR and FRR taken into account in the dimensioning of FCR? Answer: a sensitivity analysis has been performed and presented in the Annex
- Elpec: A cost benefit analysis could be used to prove the risk approach chosen for FCR (10/20 years) to compare the risk of load-shedding against the additional cost for FCR. This proposal will be considered by the LFC&R DT.
- ACE sub-targets per control area
 - Are control areas the right place to calculate the ACE in the light that congestions are not always on control area borders? The zone delimitation is further discussed. There needs to be a relation between bidding zones and control areas.
 - Is the division into ACE sub-targets per control area the right approach to achieve the economic optimum? Answer: the ACE sub targets define a technical monitoring that corresponds with the responsibility per TSO. This approach is open for a TSO co-operation that follows a common sub-target
- In relation to the distribution of Reserves the need to respect the possibility of network splitting or islanding is questioned. It is replied by the LFC&R DT that in the history several occurrences can be named where this feature was needed.

- EDF: Where do the 3% and 6% rule derive from? What is the meaning of an electrical node? Answer: 3% / 6% are based on experience. An electrical node can be understood as a bus bar.
- Can we imagine a better approach to distribute the FCR better than the proposed even distribution? Answer: Since the exact location of a possible incident is unknown the even distribution is the best approach.
- Is there an influence of renewables on the needed Reserves? The answer was given, that it might be relevant for FRR and RR, but currently not for FCR.
- What is the relation of redispatch and this code? The LFC&R NC replied that no relation is currently seen.
- The desired measurement quality for the system frequency shall be investigated.

4. Scope of LFC&R NC

Pavel Zolotarev elaborates on the scoping of the future LFC&R network code based on a presentation and highlights topics that will not be part of the code, but covered in other codes

Questions posed:

- What is the definition of a Providing Unit? Does it include several units acting as one? The answer is that a Providing Unit can be seen as multiple units acting as one.
- In the RFG code ranges are given, how do they relate to the LFC&R code?
- Where will the parameters for each Synchronous area be calculated? The answer was given, that the next version of the code will include more details on this point.
- It is important to reflect the boundary conditions for the implementation of a common merit order (Balancing NC).
- The expression “product requirement” is misleading, it shall be clear that these are mere minimum technical requirements.

5. First informal draft of LFC&R NC

Karine Rubiolo introduces the participants to the first informal draft of LFC&R NC.

Frank Reyer invites the participants to an open discussion of the articles of the current draft.

As an additional question it was asked to the stakeholders if time control is still needed.

Remarks given

- Elpec: A legal section should consider describing an escalation procedure in case of conflicts. (e.g. from CACM code)

- Elpec: What happens if a TSO does not fulfill the requirements?
- Elpec: Data that is used shall be publicly available.
- Elpec: Cost recovery shall be reflected in the code
- There shall be no conflict between the RR and the Intraday Market. The LFC&R DT does not see such a conflict.
- The definition shall be precise and fixed as early as possible (e.g. the exact definition of the system frequency)
- Remark to Article 3.2. (page 5) “ ... to be in line ...” is misleading in the relation to the RFG code
- Will there be a chapter covering the relationship to DSOs? The answer is given, that there is not much relationship, but that the relationship was discussed in a separate meeting with the DSOs.
- Is reserving capacity for reserve exchange planned? Reserving transmission capacity is out of scope of this LFC&R NC.

6. Questions & remarks of the Stakeholders

No further questions and remarks from Stakeholders.

7. Conclusions

Olivier thanks the participants for the productive and interactive discussion and assures that the remarks given will be taken into account. He reminds that remarks are always very welcome and can also be given by email to the address published on the ENTSO-E website.

The next workshop will take place on the 25th of September 2012.