



The UCTE Operation Handbook - 2nd Progress Report -

11. Regulatory Forum 16./17. September 2004

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Contents

- Short review on the Operation Handbook
 - Basic Principles and Structure
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 - available Policies (<http://www.ucte.org>)
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Operation Handbook – the beginning

- UCTE heritage:
set of **technical rules** prepared within 50 years
scattered in **many documents**
 - The goal:
one **comprehensive set** of TSOs standards,
up-to date and transparent
- the Operation Handbook

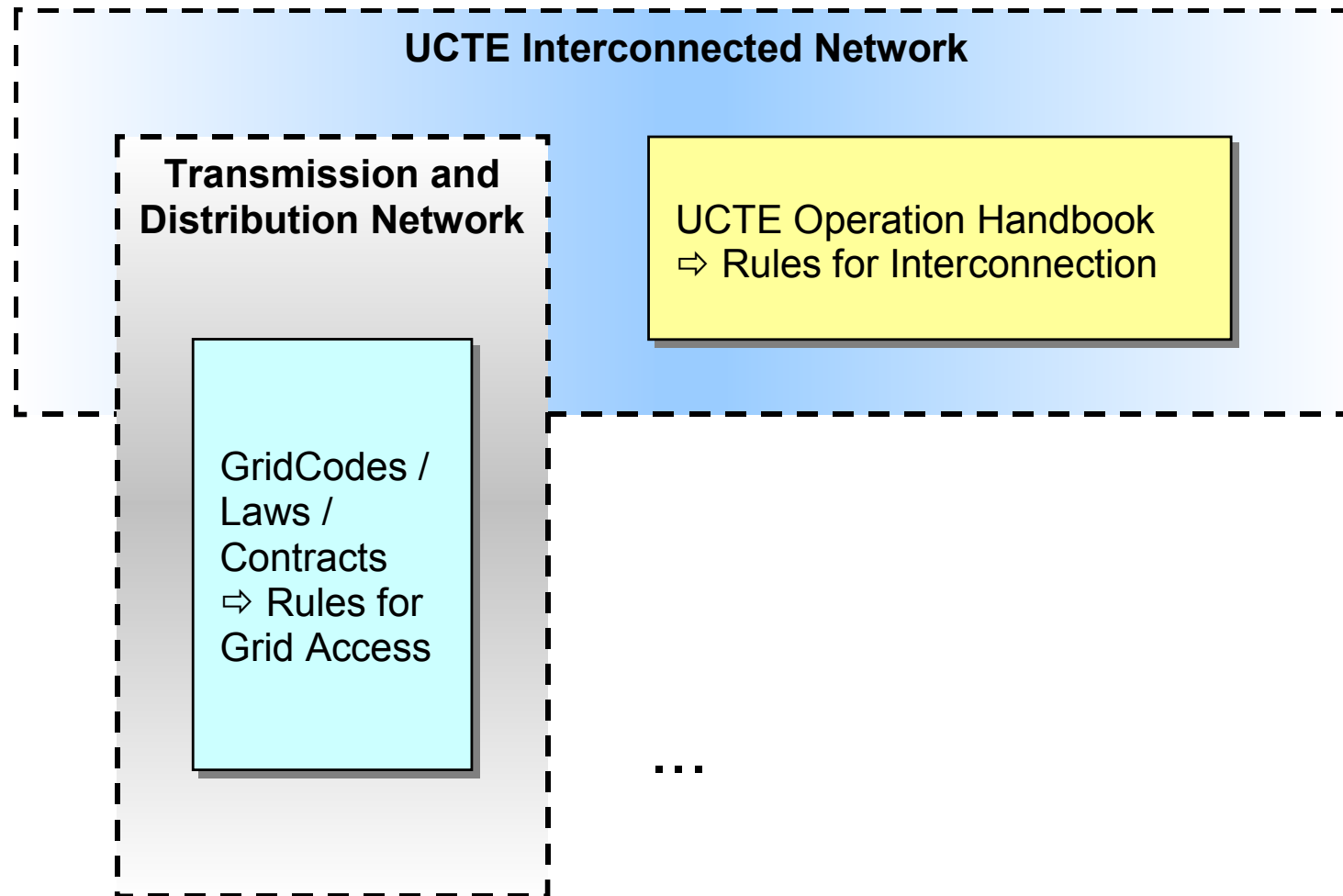


UCTE's basic needs for the handbook

- Need for **clear and precise** technical rules
- **Comprehensive and structured** summary of all existing documents
- More **rapid establishment** and review of rules
- **Adaptation** to new regulatory and market environment
- Additional **measures and monitoring** criteria required
- **Binding** Security and Reliability Standards and **legal enforceability**



OpHB versus National Grid Codes



Setting up the work

- Definition of the Policies of the Handbook, appointing Drafting Teams
- The Drafting Teams work in close contact with the legal experts to take into account the legal issues

Operation Handbook Policies

- 1. Load-Frequency Control and Performance**
 - 2. Scheduling and Accounting**
 - 3. Operational Security**
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- 4. Coordinated Operational Planning**
 - 5. Emergency Procedures (Operations)**
 - 6. Communication Infrastructure**
 - 7. Data Exchanges**
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- 8. Operational Training**

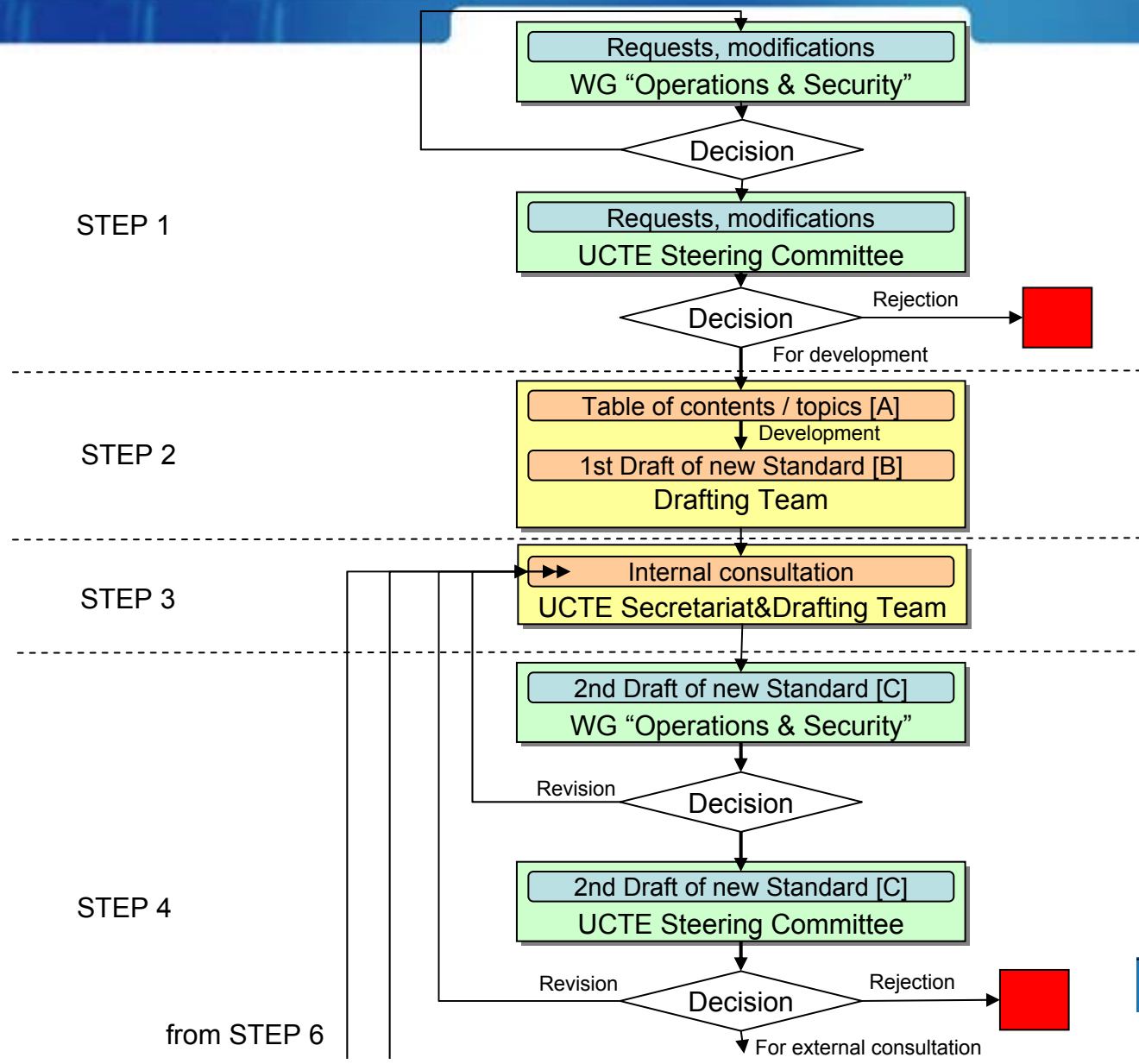


Basic structure of the handbook

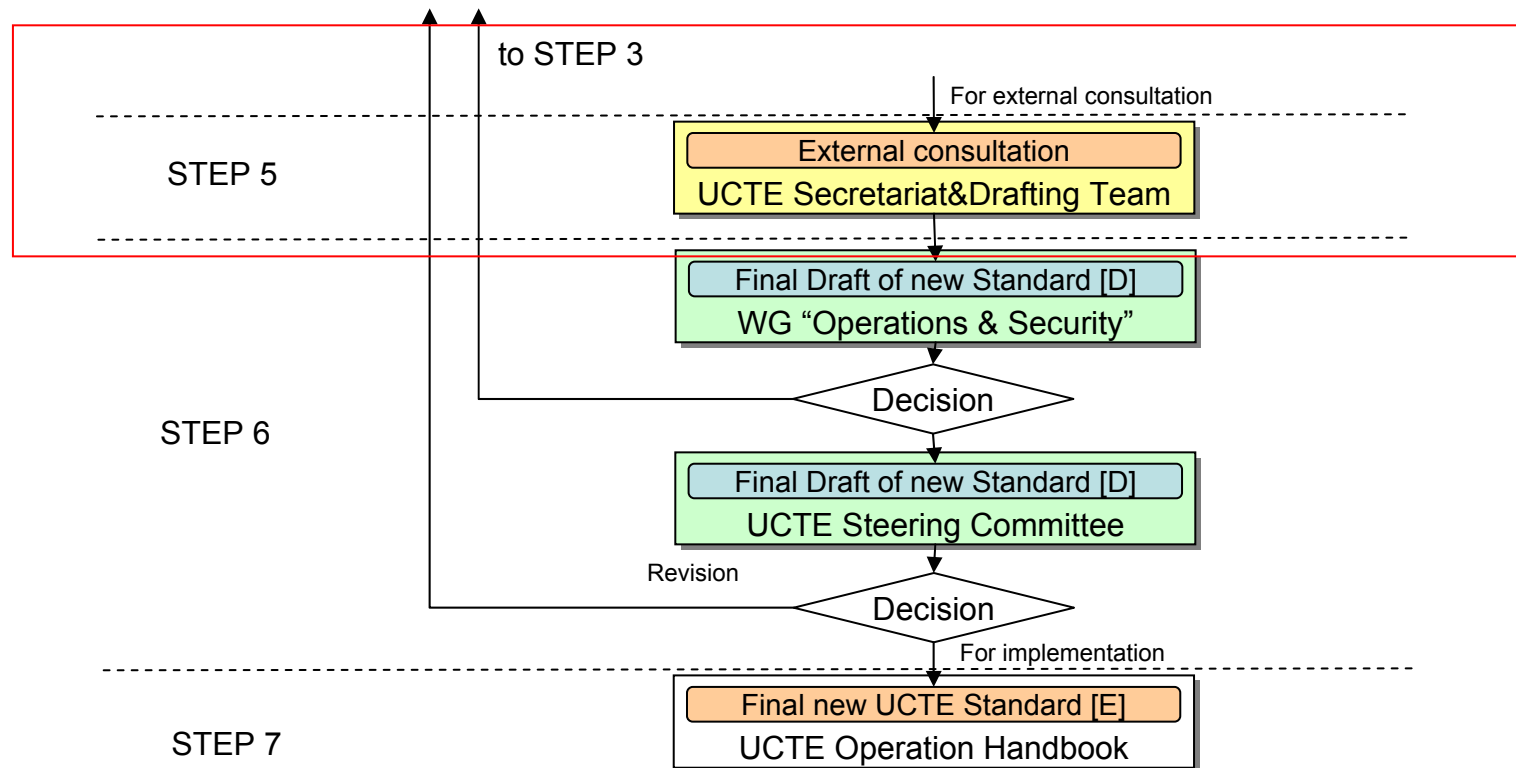
- **Introduction, Glossary**
- **Policies** *(technical documents)*
 - Criteria *(definitions and references)*
 - Requirements *(prerequisites)*
 - Standards *(rules)*
 - Guidelines *(recommendations)*
 - Procedures *(common practice)*
 - Measures *(reaction on violation)*
- **Appendices** *(complementary docs)*



Procedure for handbook development



Procedure for handbook development



Development Schedule

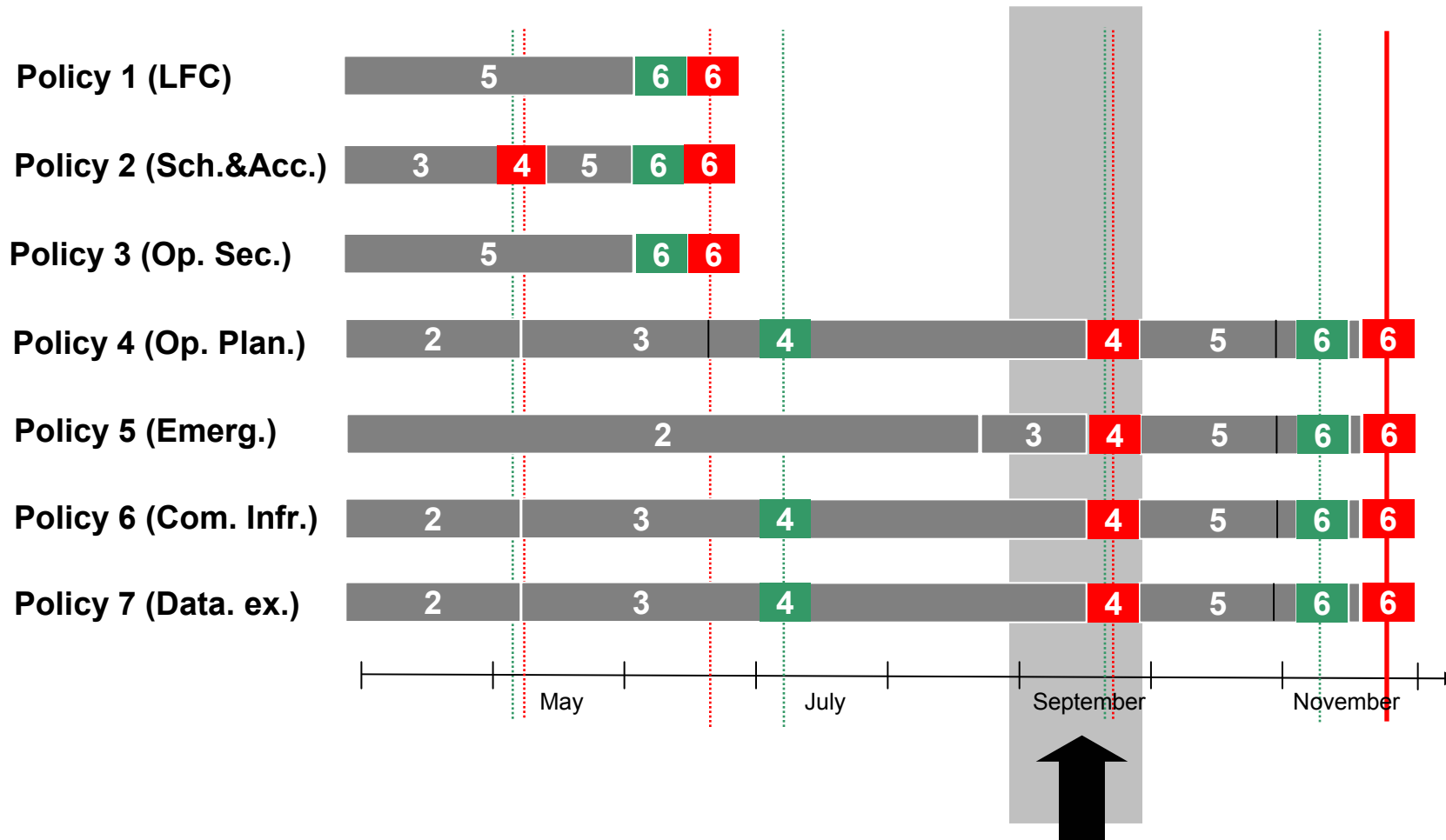


Table of Contents of Policy 3

- A. N-1 Security (operational planning and real time operation)
- B. Voltage control and reactive power management
- C. Network faults clearing and short circuit currents
- D. Stability
- E. Outages scheduling
- F. Information exchanges between TSOs for security of system operation



Consultation Process is:

- **Public:** web-based consultation forum as an open tool for commenting
- **Transparent:** with full access for registered participants
- **Pro-active:** all major external stakeholders were invited to participate
- **Precise:** with deadlines for commenting (reminders)
- **User friendly:** all comments answered by Drafting Teams in co-operation with UCTE Secretariat

Conclusions (1)

- Operation Handbook is the cornerstone for the legal framework **ensuring the security** of the interconnected systems
- Operation Handbook provides market players and stakeholders with **transparent** inter-TSO rules
- Operation Handbook is the **compendium** of technical standards related to the UCTE interconnected system

Conclusions (2)

- Operation Handbook development is a permanent **improvement** process
- Operation Handbook is **public**
- Together with a MLA and CMEP could be considered as a **model** towards EU “common layer” of **technical standards**