

ENTSO-E Operational Security Network Code



OS Code Objectives

- Ensure safe, secure and efficient system operation
- Common security principles & minimum standards
- Co-ordination between TSOs
- Enable integration of RES & innovative technologies

Update for JESG meeting 6th Dec 2012

David Coan

OS NC Timeline and status update

Activity	Date
ACER publishes Framework Guidelines (FG)	December 2011
ENTSO-E 1 st Public Workshops	19 March and 2 nd July
Formal Consultation Starts	3 September
ENSTO-E Public Workshop (during consultation)	18-19 September
JESG walk through workshop	3-4 October
Formal Consultation Ends	3 November
ENTSO-E Public Workshop (NC after consultation)	20 December
ENTSO-E additional ½ day workshop (on Supporting paper)	14th January (pm)
Final Code submitted to ACER:	1 March 2013
ACER Code Review completes	End May 2013
Network Code submitted to Comitology	June 2013
Network Code applies from:	2014

Summary of Code Content

Seeks to establish common security principles, harmonising of system operation and coordination of operational activities. Applicable to TSO, DSOs, generators and consumption.

Chapters topics cover:

- System states, Freq control, Voltage control
- Fault level mgt, Congestion mgt, N-1 analysis
- Protection (SPS), Stability mgt, Testing and monitoring
- Data (structural, forecast, measurements)
- Training and certification

Key points to note

- 29 organisations / companies responded to the Consultation , total of 1200 individual comments
- Main themes –
 - NRA approval requirement,
 - Specific thresholds absent,
 - Consistency with other Codes,
 - Definitions,
 - Potential burden on small users and DNOs
 - Potential testing burden,
- Majority of comments accepted completely or partially
- Many clauses have been changed, some new added,

Example of some changes since Consultation

- Clause 3(3) being re-drafted by legal team, clause deals with NRA review of future methodologies, data obligations, etc
- More OS NC clauses now include references to 3(3)
- Tables of voltage criteria added
- Tables for frequency performance criteria added
- Resynch for embedded generation clarified applies to generation identified by the TSO
- Testing and monitoring articles merged into compliance / obligation articles
- Training and certification details shared with NRA, more emphasis on training with DSOs and users
- Emergency Plan references changed to Business Continuity Plan
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