

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

16/08/12 JESG Edinburgh

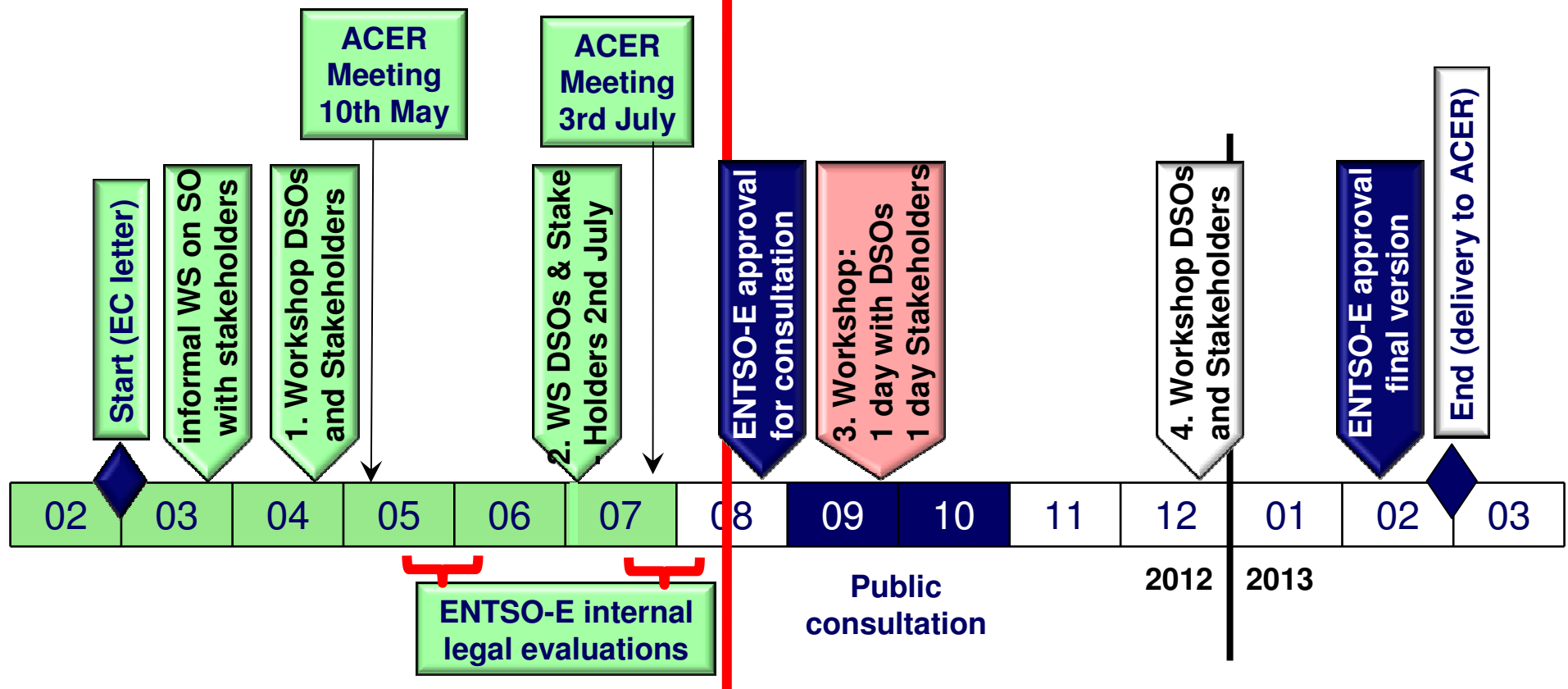
David Coan

Timeline and Description

nationalgrid

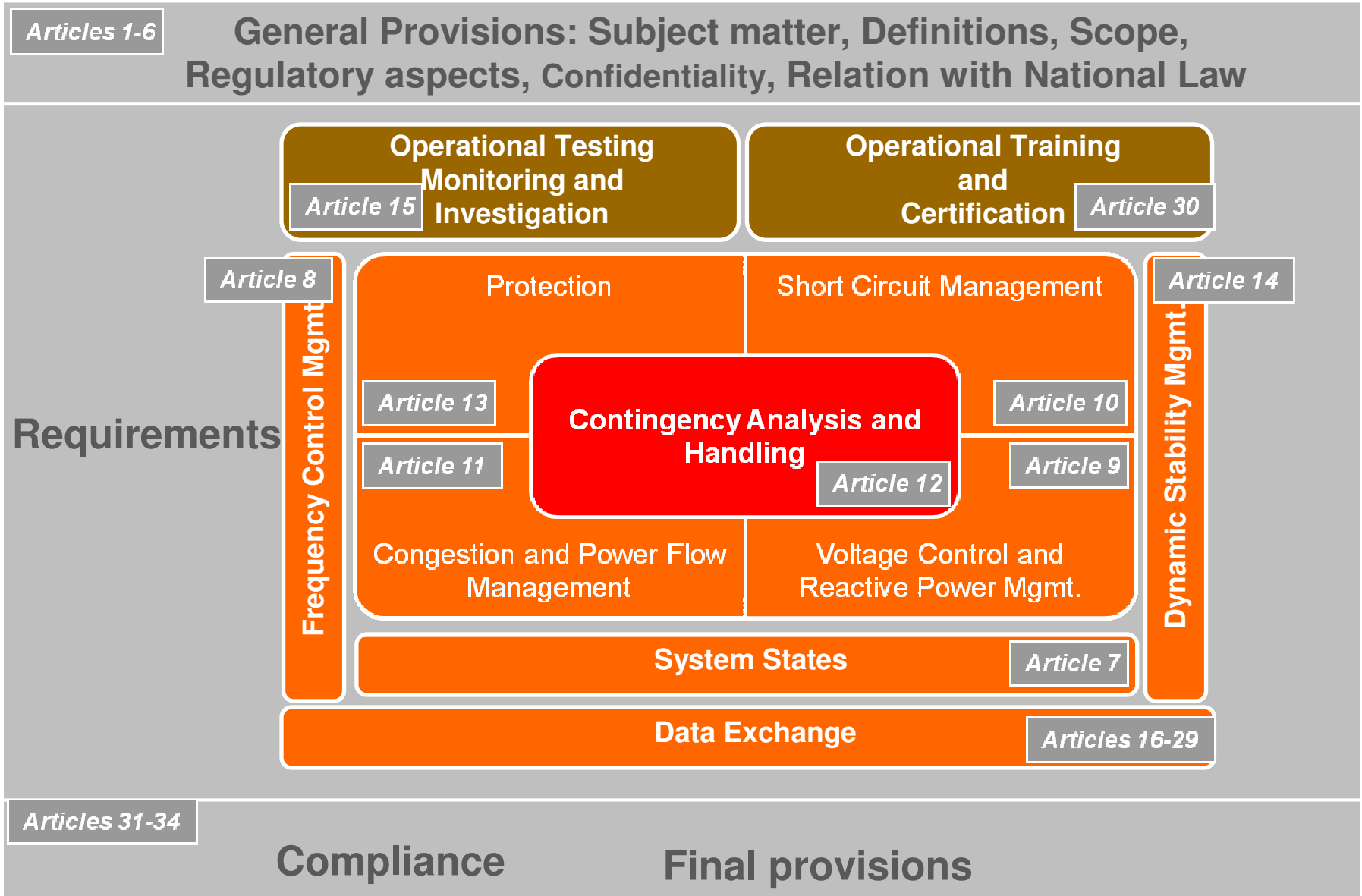
- Two external workshops + ACER mtgs
- Consultation due out in September
- Third workshop during Consultation
- JESG OS NC workshop 3rd Oct

- High level doc, principles of Op Security
- Umbrella document for other Op Codes
- Mostly TSO facing obligations
- Data obligations, but at high level only



Operational Security NC structure

nationalgrid



Some examples of TSO obligations

- **System states, common awareness system**
- **Emergency plan in place**
- **Security analysis – real time and forecast**
 - **N & N-1, -1 can be defined by TSO as a double circuit**
 - **share model and forecast data, Common Grid model(s)**
 - **Manage short circuit levels, reactive reserves,....**
- **Cross border re-dispatch TSO co-operate to find most efficient**
- **Cross border Op security limits co-ordinated**
 - **Develop a methodology to determine the min % for each synchronous area to ensure stability and security**
- **Monitor and test significant grid users compliance**
- **Train , Certify and Develop its control room operators**

Some of the recent feedback on the OS NC

- **Definitions need to be consistent with previous Codes**
- **Consistency between Codes needs more consideration**
- **Significant Grid User**
 - **Specific thresholds absent**
 - **Grid User obligations: resync, monitoring, testing,...**
- **Set out the values of Op Security Limits in the code**
- **Justifications for the values in the RfG, DCC, ..**
- **DSO rights to direct users**
- **NRA approval for future methodologies and obligations**
- **Performance measures are absent**
- **Need to see all three Operational Codes at same time**

Summary

- **Consultation version out early September** (closes early Nov)
 - Should see improved consistency with other NCs
- **I consider the impact on GB is intended to be low / modest**
 - *But open to interpretations as the OS NC is high level*
- **Entso-e OS NC workshops on 18-19th Sept**
- **JESG one day OS NC workshop on 3/10/12**
 - I will do an initial mapping to existing GB codes where relevant