

Fault Ride Through – Options



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Background

- Fault Ride Through issues identified in GCRP Paper Ref PP12/04
 - Proposed a site specific voltage duration profile to be agreed between National Grid and the User
- Background and issues discussed at the Fault Ride Through Workshop on 10 September
- Other Options
 - Await until implementation of the European Network Code Requirements for Generators
 - Adopt the European Fault Ride Through Requirements for Generators early
 - Retain the current GB Grid Code Requirements but amend the voltage duration profile to ensure some consistency with the European Requirements for Generators
 - Do Nothing

CC.6.3.15.1 (b) (i)

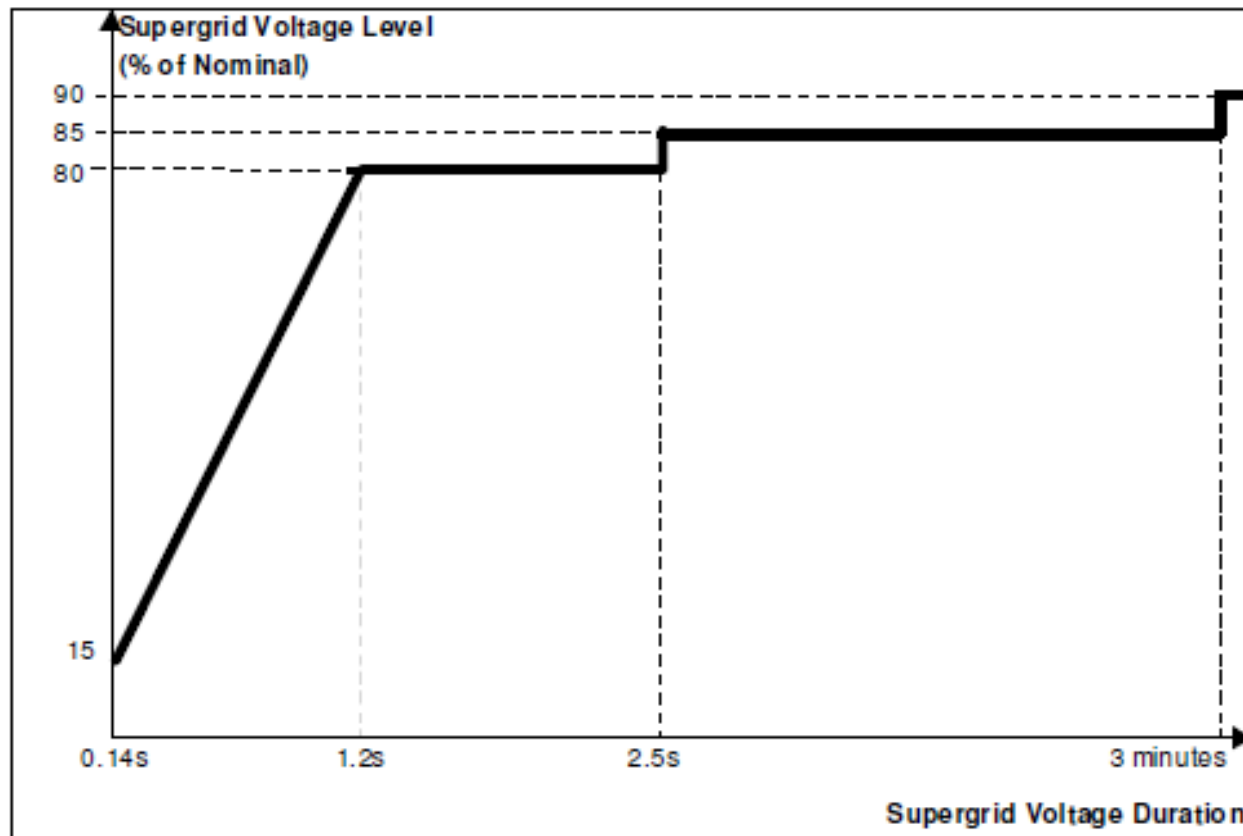
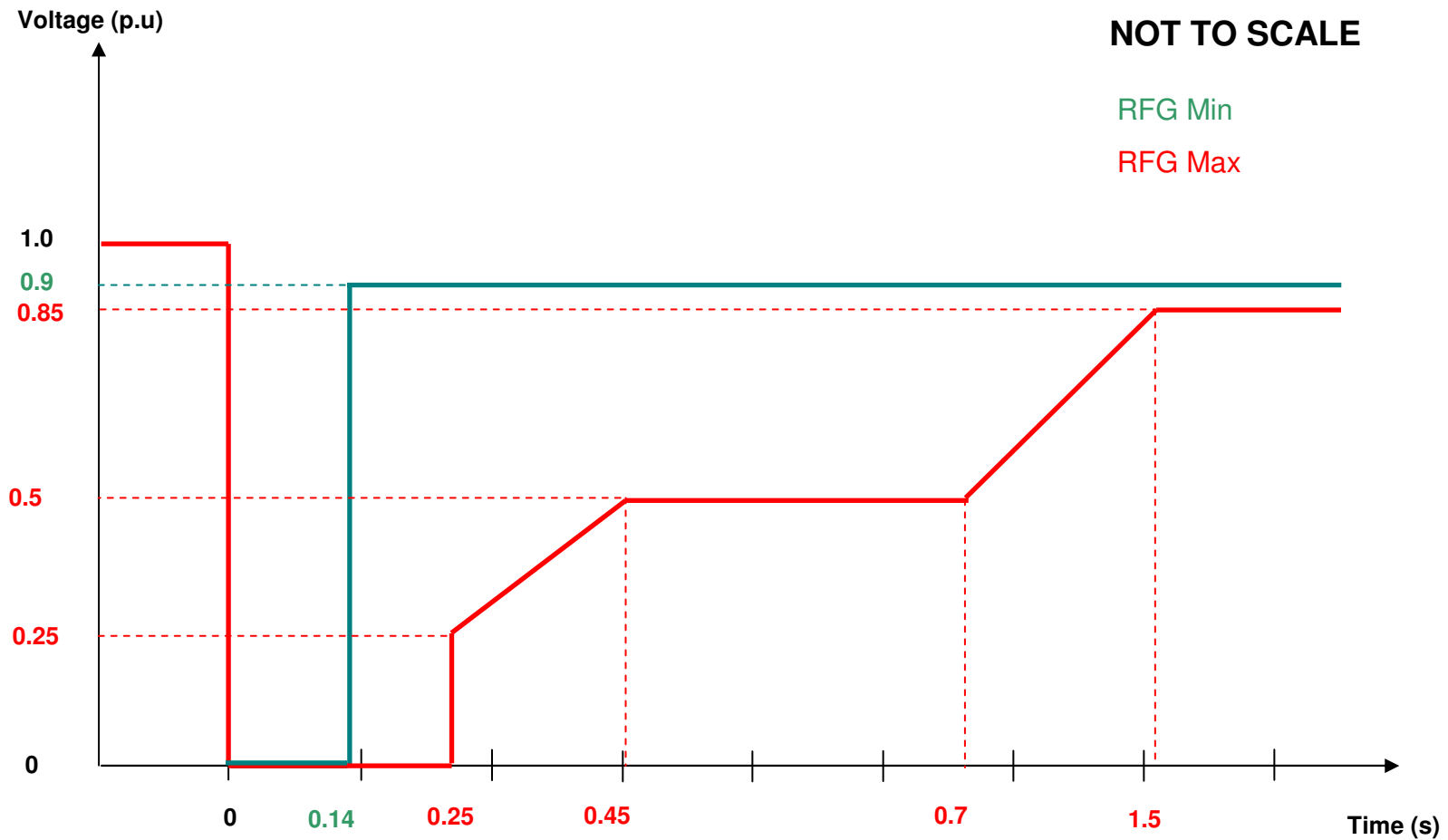


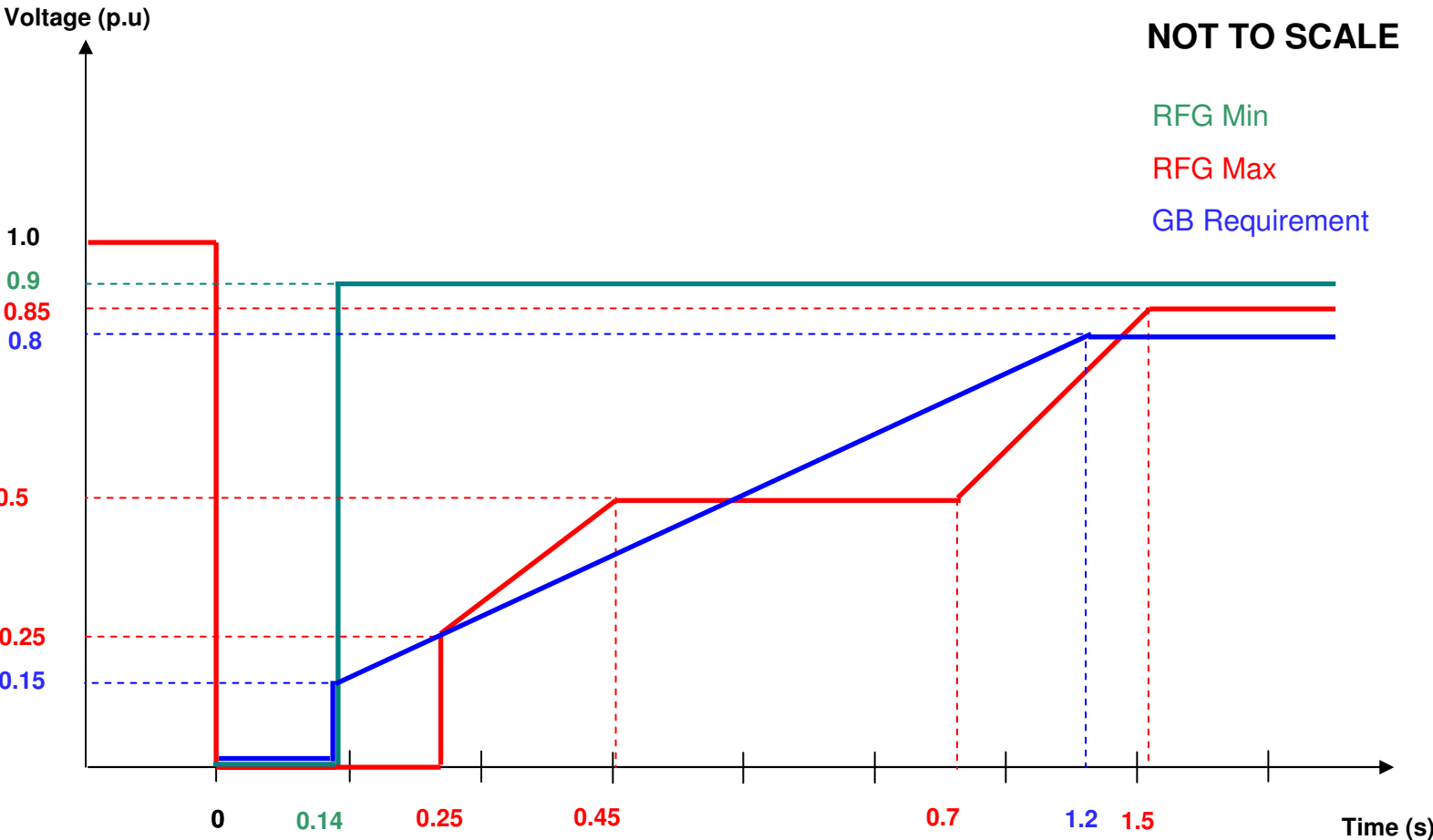
Figure 5

ENTSO-E RfG - Voltage Duration Profiles

Type D Units Table 7.1



ENTSO-E RfG - Voltage Duration Profile – Range compared with GB Requirement



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- Amendment of the current GB Grid Code Requirements with a revised Voltage Duration Curve in line with the ENTSO-E RfG may provide a possible approach.
 - **The interpretation of the Fault Ride Through Requirements would remain unchanged other than in respect of the voltage duration curve.**
 - **National Grid would need to run studies to establish the most appropriate voltage duration profile.**
 - **There may need to be a slightly different voltage duration profile between the requirements for Synchronous and Asynchronous Plant**
 - **This approach avoids trying to fully replicate the ENTSO-E requirements in full which may change ahead and during the Comitology process**
 - **Invite Comments from the Group on how to implement this or alternatives**

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- Options Considered
 - Do Nothing
 - Await Implementation of European Network Code Requirements for Generators
 - Adopt the European Network Code Requirements for Generators early
 - Retain the current GB Grid Code wording but amend the voltage duration profiles
 - Develop site specific voltage duration profiles on a site specific basis.
 - Others?
 - Discussion / ways forward