

The Voice of the Networks

**Energy
Networks
Association**

GC0048

Mike Kay Electricity North West

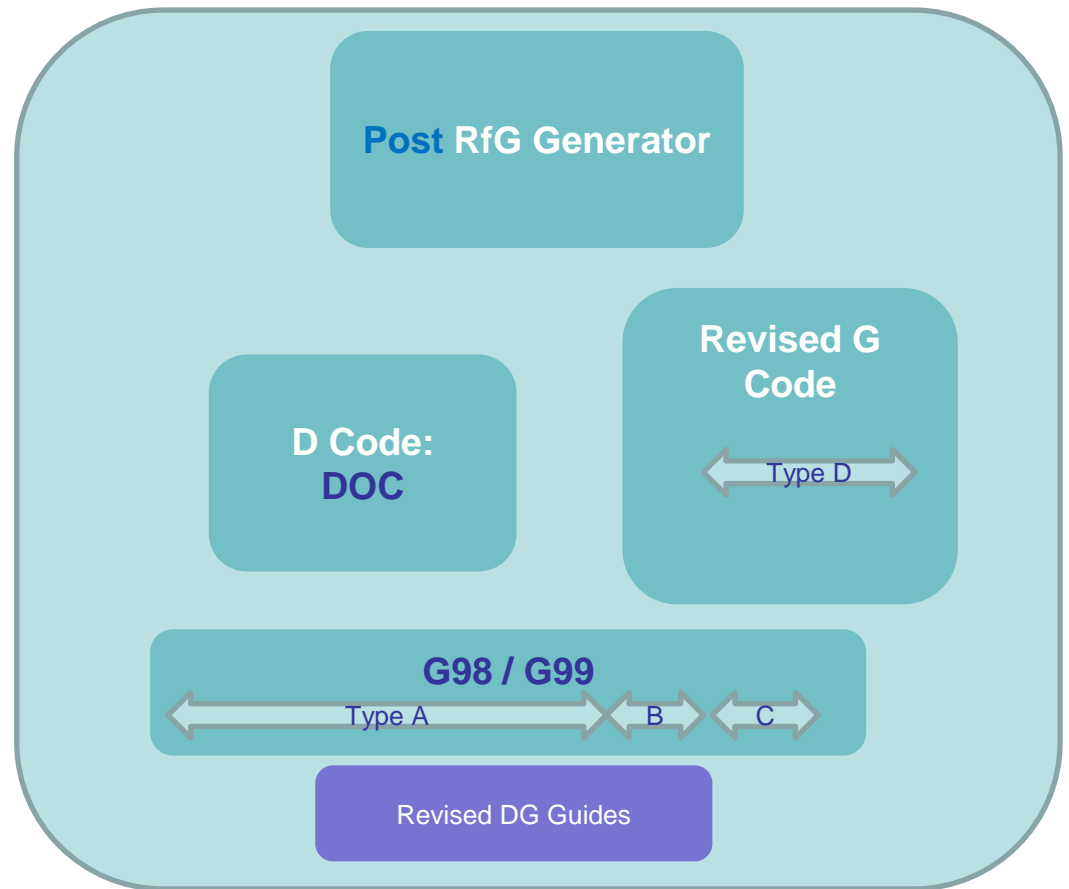
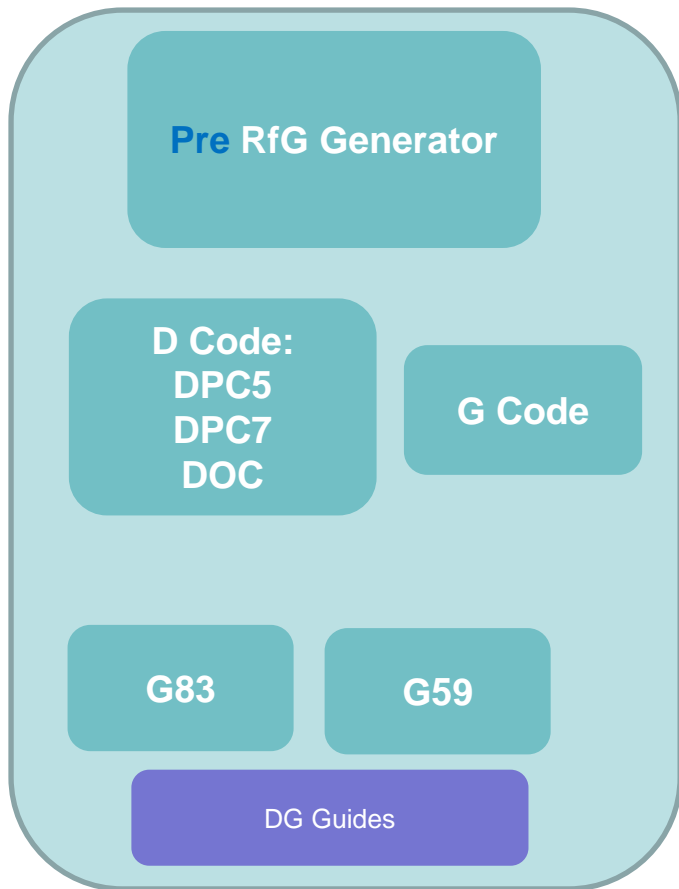
Sarah Carter Ricardo-AEA

Distribution Document Drafting Update

November 2015



Anticipated Documents



Circulated for comment:

- G98-1 Requirements for the connection of Type Tested Micro-generators (Up to 16 A per Phase) in Parallel with Low-Voltage Distribution Systems
- G98-2 Connection procedure and technical requirements for multiple Type Tested Micro-generating Plants in a Close Geographic Region and Type Tested Generating Units above 16 A per phase but with a maximum capacity less than 50 kW

These documents reference BSEN50438

The revised DG Guides will be user facing

Drafted to be issued to WG0048 shortly:

- G99 Requirements for the connection of non-Type Tested Generating Plant, and Generating Plant between 50kW and 50 MW to the Distribution systems of Licensed Distribution System Operators at less than 110kV

Drafting commenced

- Connection Guides to accompany G98-1 and -2

G99 Drafting Process

- Integration of relevant sections of RfG into G59 ✓
 - Use of mapping table to determine RfG sections for inclusion
 - Modification of over/under frequency/voltage requirements/settings to suit
- Removal of sections associated with Type Tested Generators (G98) ✓
- Sections of Distribution Code included to make G99 a single point of reference for new connections ✓
 - DPC (complete, either integrated into relevant sections, or as stand alone new section)
 - DDRC (Schedules 5a, b, c & d)
- References to G99 and DPC clauses updated ✓
- Highlighting of clauses that need Type B banding resolution ✓
- Consideration of TS 50549-1 & 2 Requirements for the connection of a generating plant to a distribution system (LV and MV) – started
- Nomenclature for equipment and parties unified - discussion

Use of TS 50549-1 (connection <1 kV) & 2 (connection 1 kV – 36 kV)

- 2014 document - parts are still under development e.g. conformance test procedure
- Potential problem re applicability of TS documents – they are voltage driven compared to RfG which is capacity driven (until 132 kV)
- In places dual requirements are given in TS documents- minimum and most stringent e.g. frequency withstand and active power reduction. We would need to define specific GB requirements
- In other places TS requirements are more onerous than GB e.g. reactive power capability (between 0.9 lead and lag cf 0.95 GB)
- Tabulating the options for further consideration
- Comments welcome

Nomenclature discussion

- **Equipment**
 - Power Generating Module in place of Generating Unit or Generating Plant
 - Power Generating Facility in place of Power Station
 - Small, Medium and Large remain at present
- **People/Organisations**
 - Power Generating Facility Owner
 - User
 - Customer (specifically Customers which are not the User)
 - Manufacturer
 - Installer
 - Meter Operator
 - Supplier
 - Distribution Network Operator (DNO) or DSO?
 - Transmission System Operator (TSO)