EU Network Codes

Energy Networks Association

DCRP Issues and Update

4 October 2018

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Agenda

1. System Operation Guideline
2. Requirement for Generators
3. Demand Connexion Code
4. Other Codes
5. Issues for endorsement

SOGL Issues

- European NRAs are asking for modifications to the draft KORRR
- We believe that most of the GB concerns will be addressed, although the biggest issues overall relates to details which do not appear to be particularly relevant in GB
- We can expect to see another version of KORRR issued by ENTSO-e in October
- National Grid have said that they do not believe the final KORRR will require and Grid Code changes

- The GCRP have instructed the GC0106 WG not to develop WAGCM1 (and hence WAGCM3 as it is an amalgam of WAGCM1 and WAGCM2)
- The proposer of WAGCM2 has confirmed that the scope of WAGCM2 should be limited to just transmission connected parties.
- On this basis there is no effect on distribution connected parties; the G Code drafting required is minimal and there are no D Code implications
- It is likely that the resultant minor changes to the Grid Code will be progressed toward submission to the authority in November. The Distribution Code changes (limited to adding the fuel type to G83 and G98) will work to the same timetable

RfG

- ENA is commissioning a new type testing database for G98 and G99 compliant generation. It should be available for manufacturers to enter new type test data by December 2018
- The ENA has written an open letter on the use of Equipment Certificates in GB. The responses were useful and the ENA is considering how to take the issue forward and how best to engage with stakeholders. The ENA will look to update the DCRP at its next meeting
- The consultation on storage fast track produced 5 response. These do not imply any changes to the proposals, although a small number of editorial improvements have been suggested. The majority of these seem desirable – so the DNOs will now be package these into a Report to the Authority. Stakeholders input and the DNOs responses are being circulated separately for the Panel's information
- Stakeholder and DNO experience to-date of G98 and G99 has resulted in a number of minor and housekeeping changes that should be made to these documents
- These points are explained on the next two slides – and the consultation paper and marked up documents have been circulated
- Subject to DCRP agreement a four week consultation can be launched immediately

Proposed Mods to G99

1. Changes with definite implications for some stakeholders
    1. Interface Protection testing values
    2. Tests to ensure RoCoF protection correctly discriminates during high RoCoF
2. Minor defects in original drafting
    1. Phased installations
    2. Submission of Compliance Document for Type A
    3. Reconnexion Times
    4. Importance of FON
    5. Definition of Registered Capacity
    6. Missing LMSF-O test steps
    7. Duplication of non-standard voltage settings
    8. Monitoring of tripping and auxiliary supplies
    9. Published fault levels
    10. Timing of PGMD submission for Type D
    11. Manufacturers' Information
    12. Type B simulation studies for reactive power
    13. Type B simulation studies for frequency response
    14. Power Factor Control
    15. Governor/Control specification
    16. Replace Designed Minimum Operating Level with Minimum Regulating Level
    17. Simulation Validation
    18. Clarification that the PGMD must be submitted 28 days before synchronization
    19. Additional space for insertion of Manufacturers' Information reference numbers
    20. Consistency of G59 and G83
3. Minor errors, typographical errors etc
    1. Labelling of forms
    2. Term "Power Station"
    3. Other minor corrections

Proposed Mods to G99 - 2

- Interface Protection Test Values

	A2-4 Value (proposed for all tables)	A2-3 and G98 Form B Values (to be replaced)
U/F Stage 1 stability test	47.7 Hz; 30 s 47.2 Hz; 19.5 s	47.7 Hz; 25 s 47.2 Hz; 19.98 s
U/F Stage 2 stability test	46.8 Hz; 0.45 s	46.8 Hz; 0.48 Hz
O/F Stability test	51.8 Hz; 120 s 52.2 Hz; 0.45 s	51.8 Hz; 89.98 s 52.2 Hz; 0.48 s
U/V stability test	188 V; 5.0 s 180 V; 2.45 s	188V; 3.5 s 180V; 2.48 s
O/V Stage 1 stability test	258.2 V; 5.0 s 269.7 V; 0.95 s	258.2 V; 2.0 s 269.7 V; 0.98 s
O/V Stage 2 stability test	277.7 V; 0.45 s	277.7 V; 0.48 s

- Tests to ensure RoCoF protection correctly discriminates during high RoCoF
  - Suggest 2.5Hz/s for just < and just > 0.5s
- Reconnexion Times
  - 196.1V instead of 180V – not material – so no action required
- No need to retest to create new type test certificates

DCC Update

- Ofgem approved D Code changes on 5 September; effective from 7 September
- There are proformas to be used for demand side service contracts and are hosted on the ENA website http://www.energynetworks.org/electricity/engineering/demand-side-services.html

Emergency and Restoration Code

- NG are now consulting on the System Restoration and System Defence plans (closing date 12 October)
- Thus far there appears to be no impact on distribution connected parties or no the Distribution Code

DCRP Issues

- The DCRP is invited to:
  - Note progress with DCC and with SOGL
  - Note the responses to the Storage Fast Track consultation and the DNOs' intent to recommend these changes to the Authority
  - Endorse a 4 week consultation on the housekeeping changes to G98 and G99