

RfG System Management Requirements

| | Articles | TO | SO | DNO | Comments |
|---|--|---|--|--|--|
| 1 | Power Generating Module Type A System Management Requirements Automatic Reconnection - (Article 13(7)) | NA | Any party (Transmission or Distribution connected) captured by the Grid Code requirements will be reconnected by NG instruction (automatic reconnection will not be permitted) | G59 specifies this. | Wider concern of implication on the system as a result of the high volumes of embedded generation. This is likely to require further work in the future as part of a GB specific workgroup |
| 2 | Power Generating Module Type B System Management Requirements (Automatic reconnection / Control Schemes) (Article 14(4) and Article 14(5)) | NA | Any party (Transmission or Distribution connected) captured by the Grid Code requirements will be reconnected by NG instruction (automatic reconnection will not be permitted) | G59 specifies this. G99 will apply current approach to all D connected generation – or possibly for A to C, not D. | Wider concern of implication on the system as a result of the high volumes of embedded generation. This is likely to require further work in the future as part of a GB specific workgroup |
| 3 | Power Generating Module Type B System Management Requirements Protection (1) – Article 14(5)(b)(i) and (ii) | NA | Could be done through bilateral agreement | Provisions in DPC4.4.4. and DPC 7.4.3 are generally the same as required in the RfG | |
| 4 | Power Generating Module Type B System Management Requirements Protection (2) - (Article 14(5)(b)(iii)) | TO's will have to specify the schemes and settings for directly connected if different from the current GB practice | Update the Grid Code as necessary | Provisions in DPC4.4.4. and DPC 7.4.3 are generally the same as required in the RfG | |
| 5 | Power Generating Module Type B System Management Requirements Protection (3) - (Article 14(5)(b)(iv) and 14(c)) | NA | Doesn't need to be specified but needs a bit of thinking | ditto | |
| 6 | Power Generating Module Type B System Management Requirements Operational Metering - (Article 14(5)(d) (i) and (ii)) | Same as current GB practice for Generators currently caught by the requirements of the Grid Code. | Same as current GB practice for Generators currently caught by the requirements of the Grid Code. (No change required) | DNO will have to specify the requirements for Type B/C and how it will be implemented. | |
| 7 | Power Generating Module Type C System Management Requirements FSM Monitoring / Automatic Disconnection at specified voltages | TO's will have to amend the Electrical Standards. For NGET its RES TS_3.24.95 that would need amending (FSM Monitoring) | NA | Dependent on TSOG Art 50 plus DNOs own requirements (if any). | |
| 8 | Power Generating Module Type C System Management Requirements - Automatic Disconnection at specified voltages | NA | Current Scottish voltage ranges can be used. CC.6.3.15.3. Code change required | DNOs will not use this save for the equivalence with the over and under voltage protection in G99. | |
| 9 | Power Generating Module Type C System Management Requirements Robustness Article 15(4)(a) – (c) | NA | Same as current GB practice. No change required | TSO requirement. To be implemented. | |

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| 10 | Power Generating Module Type C System Management Requirements 15(6)(a) | TO to consider in coordination with the SO and may have to specify the requirements if required | If a generator wishes to install the equipment then the requirements will be specified through bilateral requirements | NG needs to decide what to do about this. Or stay with current D Code drafting DPC7.4.2.1 & DPC7.4.5 | |
| 11 | Power Generating Module Type C System Management Requirements Monitoring (Article 15(6)(b)(i) - (iv)) | RES (TS_3_24_70 Dynamic System Monitoring) needs to be updated TS.3.24.69 Fault Recording - Not part of RES? Quality of Supply - Is this captured under the bilateral agreement? TOs will have to identify other documents that need to become part of RES | Grid Code change may be required | DNO's need to consider and specify this requirement | |
| 12 | Power Generating Module Type C System Management Requirements Simulation / Models (1) (Article 15(6)(c)(i) and (ii)) | NA | No new requirement. No change required | NA | Model isn't proven until the end of the test result |
| 13 | Power Generating Module Type C System Management Requirements Simulation / Other Issues (2) (Article 15(6)(c)(iii),(d),(e) and (f)) | NA | No change to the current requirements | DNOs and SO requirement to be the same as far as possible | |
| 14 | Power Generating Module Type D System Management Requirements Synchronising (Article 16(4)) | RES change will be required. TS.3.24.60_RES (TGN 55) TO will have to specify the requirement | NA | DNOs and SO requirement to be the same as far as possible | |
| 15 | Type D Synchronous Power Generating Modules and Type C PPM's Angular Stability under fault conditions / POD (Art 19(3) / Art 21(3)(f)) Other Issues | NA | NA | Current D Code drafting DPC7.4.2.1 & DPC7.4.5 | |
| 16 | Derogations / Emerging Technology | NA | NA | NA | |