|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Rev 7; Title I: A1-A11; Title II: A12-A26  Title III: A27-A33; Title IV: A34-A47 |  | DU≤1kV | DU > 1kV | | | | |  |
|  | Requirement | A |  | Tx DF | Dx DF | Tx DS | Tx DSC | Dx CDS |  |
| M | frequency requirement, | A12(1) |  | X |  | X | X |  | Annex I |
| M | voltage requirement, | A13(1) |  | X |  | X | X |  | Annex II |
| O | auto disconnect at specified voltage | A13(5) |  | X |  | X | (X) |  |  |
| M | Short circuit requirement, Icw,(1),  Ipk min + Ipk max (2), (3-9 event planning) | A14 |  | X |  | X | (x) |  |  |
| M | Reactive power requirement | A15 |  | X |  | X |  |  |  |
| M | Protection requirement (1:Tx) (DF/DS:2) | A16 |  | X |  | X |  |  |  |
| M | Control requirement | A17 |  | X |  | X |  |  |  |
| M | Information exchange | A18 |  | X |  | X |  |  | A38,A40 |
| M | Demand disconnection for system defense and demand reconnection | A19 |  |  |  |  |  |  | A37,A39 |
| -S | Automatic under-frequency-disconnection | A19(1) |  | X |  | X |  |  |  |
| -S | Low voltage demand disconnection | A19(2) |  | X |  | X |  |  |  |
| -S | Blocking of load tap changer | A19(3) |  |  |  |  | X |  |  |
| -S | Reconnection after disconnection(a)  Synchronization( b), Remotely disconnect(c) | A19(4) |  | X |  | X |  |  |  |
| M | Power quality | A20 |  | X |  |  | X |  |  |
| S | Simulation models | A21 |  | X |  | (x) | (X) |  |  |
| G | Operational notification, EON-ION-FON | A22-A25 |  | X |  |  | X |  | A43,A46, A47 |
| G | Operational notification, LON | A26 |  | X |  |  | X |  |  |
| O | DSR service | A27 |  |  |  |  |  |  | A41 |
| O | Active power control (remote) (a)(i) | A28 | X | X | X |  |  | X | A12(1)(2) |
| O | Reactive power control (remote)(a)(ii) | A28 | X | X | X |  |  | X |  |
| O | Transmission C M (remote)(a)(iii) | A28 | X | X | X |  |  | X |  |
| O | System freq. control (auto)(b)(i) | A29 | X | X | X |  |  | X |  |
| O | Very fast active power control (auto)(b)(ii) | A30 | X | X | X |  |  | X |  |
| M | ONP for providing DSR | A31 |  |  |  |  |  |  |  |
| M | ONP; Installation document | A32 | X |  |  |  |  |  |  |
| M | ONP; DSRUD | A33 |  |  | x |  |  | X |  |
| M | Roles, responsibility’s, Compliance testing | A34-36 |  |  |  |  |  |  |  |
| M | Compliance testing, system defense | A37 |  |  |  | X |  |  |  |
| M | Compliance testing, information exchange | A38 |  |  |  | X |  |  |  |
| M | Compliance testing, system defense | A39 |  | X |  |  |  |  |  |
| M | Compliance testing, information exchange | A40 |  | X |  |  |  |  |  |
| M | Compliance testing, DU, DSR | A41 | w/ RSR | w/ DSR | w/ DSR |  |  | w/ DSR | A28 |
| M | Compliance simulation, common provision | A42 | w/  DSR | X | w/  DSR |  | X |  | A21(1+2) |
| M | Reactive Power Range ( simulation) | A43 |  |  |  | X |  |  |  |
| M | Reactive power range ( simulation) | A44 |  | X |  |  |  |  |  |
| M | Very fast active power control ( simulation) | A45 |  | X | X |  |  | X | A30 |
| M | Compliance Monitoring | A46 |  |  |  | X |  |  | A15 |
| M | Compliance Monitoring | A47 |  | X |  |  |  |  | A15 |
|  |  |  |  | Tx DF | Dx DF | Tx DS | Tx DSC | Dx CDS |  |
| DF=Demand Facility; DS=Distribution System; DSC=Distribution System Connection; CDS=Closed Distribution System | | | | | | | | | |