

Modification Proposal submitted by:		Date of submission of proposal:	Modification Proposal number: (to be assigned by Review Panel Secretary)																																																											
ESB Networks		14/11/24	# 64																																																											
Contact details for Modification Proposal originator: (If not Distribution Code Review Panel)																																																														
Name	Tony Hearne	Telephone number	087 2238855																																																											
E-mail address:		tony.hearne@esb.ie																																																												
Modification Proposal Title:		Two housekeeping corrections to Version 8																																																												
Distribution Code section(s) affected by proposal																																																														
1. Table 9 2. DCC11.5.3.3																																																														
Modification Proposal description (clearly state the desired amendment and all text changes. Attach further information if necessary)																																																														
1. The row for DCC11.5.1.1 incorrectly shows that clause applying to Topology 5 connections. The cell for Topology 5 should contain an "N/A".																																																														
<table border="1"> <thead> <tr> <th colspan="7">Voltage</th> </tr> </thead> <tbody> <tr> <td>Voltage Control</td> <td>DCC11.4 DCC11.6.2.3</td> <td>All</td> <td>≥5 MW</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Voltage Range</td> <td>DCC11.4.2.1</td> <td>All</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <th colspan="7">Reactive Power</th> </tr> <tr> <td>Power Factor Range</td> <td>DCC11.5.1.1</td> <td>N/A</td> <td>< 5MW</td> <td>All</td> <td>All</td> <td>All</td> </tr> <tr> <td>Power Factor Range</td> <td>DCC11.5.1.2</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>All</td> </tr> <tr> <td>Reactive Power Range</td> <td>DCC11.5.2</td> <td>All</td> <td>≥5 MW</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Reactive Power Control Modes¹</td> <td>DCC11.5.3</td> <td>≥5 MW</td> <td>≥5 MW</td> <td>≥5 MW</td> <td>≥5 MW</td> <td>≥5 MW</td> </tr> </tbody> </table>							Voltage							Voltage Control	DCC11.4 DCC11.6.2.3	All	≥5 MW	N/A	N/A	N/A	Voltage Range	DCC11.4.2.1	All	N/A	N/A	N/A	N/A	Reactive Power							Power Factor Range	DCC11.5.1.1	N/A	< 5MW	All	All	All	Power Factor Range	DCC11.5.1.2	N/A	N/A	N/A	N/A	All	Reactive Power Range	DCC11.5.2	All	≥5 MW	N/A	N/A	N/A	Reactive Power Control Modes ¹	DCC11.5.3	≥5 MW	≥5 MW	≥5 MW	≥5 MW	≥5 MW
Voltage																																																														
Voltage Control	DCC11.4 DCC11.6.2.3	All	≥5 MW	N/A	N/A	N/A																																																								
Voltage Range	DCC11.4.2.1	All	N/A	N/A	N/A	N/A																																																								
Reactive Power																																																														
Power Factor Range	DCC11.5.1.1	N/A	< 5MW	All	All	All																																																								
Power Factor Range	DCC11.5.1.2	N/A	N/A	N/A	N/A	All																																																								
Reactive Power Range	DCC11.5.2	All	≥5 MW	N/A	N/A	N/A																																																								
Reactive Power Control Modes ¹	DCC11.5.3	≥5 MW	≥5 MW	≥5 MW	≥5 MW	≥5 MW																																																								
Corrected content:																																																														
<table border="1"> <thead> <tr> <th colspan="7">Voltage</th> </tr> </thead> <tbody> <tr> <td>Voltage Control</td> <td>DCC11.4 DCC11.6.2.3</td> <td>All</td> <td>≥5 MW</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Voltage Range</td> <td>DCC11.4.2.1</td> <td>All</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <th colspan="7">Reactive Power</th> </tr> <tr> <td>Power Factor Range</td> <td>DCC11.5.1.1</td> <td>N/A</td> <td>< 5MW</td> <td>All</td> <td>All</td> <td>All N/A</td> </tr> <tr> <td>Power Factor Range</td> <td>DCC11.5.1.2</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>All</td> </tr> <tr> <td>Reactive Power Range</td> <td>DCC11.5.2</td> <td>All</td> <td>≥5 MW</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Reactive Power Control Modes¹</td> <td>DCC11.5.3</td> <td>≥5 MW</td> <td>≥5 MW</td> <td>≥5 MW</td> <td>≥5 MW</td> <td>≥5 MW</td> </tr> </tbody> </table>							Voltage							Voltage Control	DCC11.4 DCC11.6.2.3	All	≥5 MW	N/A	N/A	N/A	Voltage Range	DCC11.4.2.1	All	N/A	N/A	N/A	N/A	Reactive Power							Power Factor Range	DCC11.5.1.1	N/A	< 5MW	All	All	All N/A	Power Factor Range	DCC11.5.1.2	N/A	N/A	N/A	N/A	All	Reactive Power Range	DCC11.5.2	All	≥5 MW	N/A	N/A	N/A	Reactive Power Control Modes ¹	DCC11.5.3	≥5 MW	≥5 MW	≥5 MW	≥5 MW	≥5 MW
Voltage																																																														
Voltage Control	DCC11.4 DCC11.6.2.3	All	≥5 MW	N/A	N/A	N/A																																																								
Voltage Range	DCC11.4.2.1	All	N/A	N/A	N/A	N/A																																																								
Reactive Power																																																														
Power Factor Range	DCC11.5.1.1	N/A	< 5MW	All	All	All N/A																																																								
Power Factor Range	DCC11.5.1.2	N/A	N/A	N/A	N/A	All																																																								
Reactive Power Range	DCC11.5.2	All	≥5 MW	N/A	N/A	N/A																																																								
Reactive Power Control Modes ¹	DCC11.5.3	≥5 MW	≥5 MW	≥5 MW	≥5 MW	≥5 MW																																																								

2. In DCC11.5.3.3, it is not explicitly stated that this requirement, which comes from RfG V1.0, applies only to PPMs of Types C and D.

Existing content:

Table 17

Parameter	Value	Type Applicability
Target power factor	Site-specific	C and D PPMs
Tolerance	0.5%	C and D PPMs

DCC11.5.3.3 Reactive Power Mode

For the purpose of reactive power control mode, power park modules of topology 2, shall be capable of setting the reactive power setpoint anywhere in the reactive power range, specified in DCC11.5.2, with setting steps no greater than 5 MVar or 5 % (whichever is smaller) of full reactive power, controlling the reactive power at the connection point to an accuracy within plus or minus 5 MVar or plus or minus 5 % (whichever is smaller) of the full reactive power;

Corrected content:

Table 17

Parameter	Value	Type Applicability
Target power factor	Site-specific	C and D PPMs
Tolerance	0.5%	C and D PPMs

DCC11.5.3.3 Reactive Power Mode

For the purpose of reactive power control mode, **Type C and D** power park modules of topology 2, shall be capable of setting the reactive power setpoint anywhere in the reactive power range, specified in DCC11.5.2, with setting steps no greater than 5 MVar or 5 % (whichever is smaller) of full reactive power, controlling the reactive power at the connection point to an accuracy within plus or minus 5 MVar or plus or minus 5 % (whichever is smaller) of the full reactive power;

Modification Proposal justification (Clearly state the reason for the modification. Attach further information if necessary)

These errors have been pointed out by ESB Networks customers and need to be corrected.

Implications of not implementing this modification

1. Lack of clarity for customers

Please submit modification proposals to the panel secretary by e-mail to: distcodepanel@esb.ie