

**DEMAND RESPONSE SERVICES CODE  
(DRSC)**

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(This contents page does not form part of the Grid Code)

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## **PART I**

### **DRSC.1      INTRODUCTION**

DRSC.1.1      The **Demand Response Services Code** is concerned with **Demand Response Providers** who contract with **The Company** for the provision of **Ancillary Services**.

DRSC.1.2      **Ancillary Services** are non-mandatory services used by **The Company** in operating the **System**. They are provided by **Demand Response Providers** with payment being dealt with under the terms of the relevant agreement for the **Ancillary Service**.

DRSC.1.3      Where a **Demand Response Provider** is interested in offering an **Ancillary Service** to **The Company**, then further details and additional information of the **Ancillary Services** are available from the Balancing Services section of the **Website**.

DRSC.1.4      Where **The Company** and a **Demand Response Provider** enter into an **Ancillary Services** agreement, it shall be in accordance with **Transmission Licence** condition C16 and the **Standard Contract Terms**.

DRSC.1.5      The **Demand Response Services Code** which would form part of an **Ancillary Services** agreement between a **Demand Response Provider** and **The Company** and to discharge the obligations under **European Regulation (EU) 2016/1388**. The **Ancillary Services** agreement will include an obligation on the **Demand Response Provider** to satisfy the applicable requirements of this **Demand Response Services Code**.

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DRSC.1.6      The **Demand Response Services Code** applies only to **Demand Response Providers** who have entered into an agreement with **The Company** to provide an **Ancillary Service**. This **Demand Response Services Code** does not apply to **Users** who are not **Demand Response Providers**.

DRSC.1.7      For the avoidance of doubt, **Network Operators** and **Non Embedded Customers** in respect of **EU Grid Supply Points** are required to satisfy the compliance requirements in section DRSC.11 of this code in addition to the **European Compliance Processes** only if they are also a **Demand Response Provider**, ~~unless they are also a Demand Response Provider.~~

### **DRSC.2      OBJECTIVE**

The objectives of the **DRSC** are to

DRSC.2.1      Ensure the obligations of **European Regulation (EU) 2016/1388** have been discharged; and

DRSC.2.2      Complement the requirements of the **Ancillary Services** agreement between **The Company** and a **Demand Response Provider**; and

DRSC.2.3      Define the minimum technical and compliance requirements **Demand Response Providers** are required to satisfy if they provide a **Demand Response Service** to **The Company** under an **Ancillary Services** agreement.

### **DRSC.3      SCOPE**

DRSC.3.1      The **DRSC** applies to any **Demand Response Provider** who has entered into an agreement to provide **Ancillary Services** with **The Company**.

DRSC.3.2      The **DRSC** does not apply to **Users**, **BM Participants** or other parties unless they are also a **Demand Response Provider**.

### **DRSC.4      GENERAL PROVISIONS**

DRSC.4.1      **Demand Response Services** shall be based on the following categories.

(a) Controlled by instruction from **The Company**

(i)      **Demand Response Active Power Control**

(ii)     **Demand Response Reactive Power Control**

(iii) **Demand Response Transmission Constraint Management**

(b) Automatic operation once the facility has been instructed into operation upon instruction from **The Company** pursuant to the terms of the **Ancillary Services** agreement.

(i) **Demand Response System Frequency Control**

(ii) **Demand Response Very Fast Active Power Control**

DRSC.4.2 **Demand Response Providers** who own, operate, control or manage **Plant** and **Apparatus** or **Demand Unit(s)** within a **Demand Facility** and/or **Closed Distribution System(s)** or on an aggregated basis may provide **Demand Response Services** to **The Company**. **Demand Response Providers** can offer **Demand Response Services** on an individual or collective basis and increase or decrease their **Demand** in accordance with the terms of their **Ancillary Services** agreement.

DRSC.4.3 The **Demand Response Services** specified in DRSC.4.1 are not exclusive and do not preclude **Demand Response Providers** from negotiating other services with **The Company**. These services would be pursuant to the terms of the **Ancillary Services** agreement.

DRSC.5 SPECIFIC PROVISIONS FOR DEMAND UNITS WITH DEMAND RESPONSE ACTIVE POWER CONTROL AND TRANSMISSION CONSTRAINT MANAGEMENT

DRSC.5.1 Where a **Demand Response Provider** ~~provides~~ **Demand Response Active Power Control**, **Demand Response Reactive Power Control** or **Demand Response Transmission Constraint Management** to **The Company**, then the following requirements as detailed below shall apply. For the avoidance of doubt, these requirements shall apply either individually or where it is not part of a **Demand Facility**, collectively as part of a **Demand Aggregation** scheme through a **Demand Response Provider**. ~~Demand Response Providers~~ shall ensure that any ~~Demand Unit~~ which they own, operate, control or manage and which is used to provide ~~Demand Response Services~~ shall:-

- (a) Be capable of satisfying the **Frequency** range requirements as specified in ECC.6.1.2.1.
- (b) Be capable of satisfying the voltage range requirements as specified in ECC.6.1.4.1.
- (c) Be capable of controlling the power consumption from the **Total System** in accordance with the terms of the **Ancillary Services** agreement.
- (d) Be capable of receiving instructions from **The Company** either directly or through a third party to modify their demand in accordance with the **Demand Response Service** they have agreed to provide..
- (e) Be capable of adjusting its **Real Power** or **Reactive Power** flow ~~within a time period~~ pursuant to the terms of the **Ancillary Services** agreement.
- (f) Be capable of full execution of an instruction issued by **The Company** to modify its power flow.
- (g) Be capable of further demand changes as instructed by **The Company**, ~~following the~~ execution of a previous instruction issued by **The Company** in accordance with the **Ancillary Services** agreement. Any such instruction shall not exceed the normal safe operating conditions of the **Demand Response Provider's Plant and Apparatus** or **Demand Unit(s)** which could cause such equipment to trip. Instructions to modify **Active Power** or **Reactive Power** flow may have immediate or delayed effects but in any event would need to comply with the requirements of the **Ancillary Services** agreement.
- (h) Notify **The Company** of any change in the available capacity in accordance with the relevant **Ancillary Services** agreement.
- (i) Be capable of withstanding a rate of change of **System Frequency** of up to a maximum of 1Hz/s measured over a 500ms time frame.

DRSC.5.2 In addition to the requirements of DRSC.5.1, where a **Demand Response Provider** automatically modifies its **Demand** in response to changes in **System Frequency** or **System** voltage or both, **The Company** will have previously instructed the **Demand Response Provider** to switch these facilities into service in accordance with the terms of the **Ancillary Services** agreement prior to any automatic action taking place. The ability for **The Company** to issue instructions, receive acknowledgement of those instructions and receive operational metering data (for example voltage, current, **Active Power** and **Reactive Power** signals) from the **Demand Response Provider** will be dependent upon the type of **Demand Response Service** provided and shall be defined in the **Ancillary Services** agreement which shall be pursuant to the **Standard Contract Terms**.

DRSC.5.3 **Non Embedded Customers** who are also **Demand Response Provider's** shall be capable of providing **Demand Response Reactive Power Control** by switching static compensation equipment into or out of service. ~~+~~

DRSC.6 SPECIFIC PROVISIONS FOR DEMAND UNITS WITH DEMAND RESPONSE FREQUENCY CONTROL

DRSC.6.1 Where a **Demand Response Provider** provides **Demand Response System Frequency Control to The Company**, then the following requirements as detailed below shall apply. For the avoidance of doubt, these requirements apply either individually or where it is not part of a **Demand Facility**, collectively as part of a **Demand Aggregation** scheme through a **Demand Response Provider**. **Demand Response Providers** shall ensure that any **Plant** and **Apparatus** or **Demand Unit(s)** which they own, operate, control or manage, and which is used to ~~provide~~ **Demand Response System Frequency Control** shall:-

- (a) Be capable of satisfying the **Frequency** range requirements as specified in ECC.6.1.2.1.
- (b) Be capable of satisfying the voltage range requirements as specified in ECC.6.1.4.1.
- (c) Be fitted with a deadband facility no greater than 0.03Hz unless otherwise specified in the **Ancillary Services** agreement. This requirement shall not apply to **Demand Response Providers** where only a **Non-Dynamic Frequency Response Service** is provided.
- (d) ~~The~~ envelope of operation of the **Demand Response System Frequency Control** shall be in accordance with the terms of the **Ancillary Services** agreement. For the avoidance of doubt, continuous operation would not be required in respect of a static **Frequency** response service. ~~.~~
- (e) Be fitted with a control system which is capable of responding to changes in **System Frequency** outside the nominal value of 50Hz. A deadband either side of nominal **Frequency** shall be permitted which shall be in accordance with the requirement of the **Ancillary Services** agreement.
- (f) Be equipped with a controller that measures the actual **System Frequency**. The refresh rate of this controller shall be no longer than 0.2 seconds.
- (g) Be able to detect a change in **System Frequency** of 0.01Hz. Each **Demand Unit** owned, operated, controlled or managed by a **Demand Response Provider** shall be capable of a rapid detection and respond to changes in **System Frequency** which shall be pursuant to the terms of the **Ancillary Services** agreement. An offset in the steady state measurement of **Frequency** shall be acceptable up to 0.05Hz. **Frequency** measurements must be recorded at each **Demand Facility** and must not be derived on an aggregated basis.

DRSC.7 SPECIFIC PROVISIONS FOR DEMAND UNITS WITH DEMAND RESPONSE VERY FAST ACTIVE POWER CONTROL

DRSC.7.1 Where a **Demand Response Provider** provides **Demand Response Very Fast Active Power Control to The Company**, then the applicable requirements shall be pursuant to the terms of the **Ancillary Services** agreement which shall specify:-

- (a) The relationship between the change in **Active Power** and the rate of change of **System Frequency** over the **Demand** range of the **Demand Response Provider's Demand Unit(s)** which they own, operate, control or manage.

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- (b) The operating principles of the **Demand Response Very Fast Active Power Control** and associated performance parameters.
- (c) The response time of the **Demand Response Very Fast Active Power Control** which shall be no longer than 2 seconds from the inception of the **System Frequency** change.

DRSC.8 DATA REQUIRED BY THE COMPANY FROM DEMAND RESPONSE PROVIDER'S

DRSC.8.1 The data required to be submitted to **The Company** by a **Demand Response Provider** will vary depending upon the type of **Demand Response Service** provided and will be set out in the **Ancillary Services** agreement. →

DRSC.9 OPERATIONAL METERING REQUIREMENTS

DRSC.9.1 The operational metering data required to be submitted to **The Company** will vary depending upon the type of **Demand Response Service** provided. **Demand Response Providers** may be required to install such operational metering equipment in accordance with the **Ancillary Services** agreement.

DRSC.10 INSTRUCTIONS ISSUED TO DEMAND RESPONSE PROVIDER'S

DRSC.10.1 **Demand Response Providers** may ~~be~~ required to be fitted with communication and instruction facilities to enable **The Company** to instruct them in the operational time frame. These requirements will vary depending upon the type of **Demand Response Service** provided and will be set out in the **Ancillary Services** agreement.

## PART II

### COMPLIANCE REQUIREMENTS FOR DEMAND RESPONSE SERVICES

DRSC.11 OPERATIONAL NOTIFICATION PROCEDURE

DRSC.11.1 General Provisions

DRSC.11.1.1 **Demand Response Providers** who enter into an agreement with **The Company** to provide **Ancillary Services** are required to undertake a compliance process to ensure the **Plant** and **Apparatus** or **Demand Unit(s)** which they own, operate, control or manage, satisfies the requirements of the **Ancillary Services** agreement and the **Demand Response Services Code**. For the avoidance of doubt, **Demand Response Providers** who are also **EU Code Users**, will also be required to satisfy the requirements of the applicable requirements of the **European Compliance Processes (ECP's)**.

DRSC.11.1.2 ~~Each~~ **Demand Response Provider**, shall confirm to **The Company** its ability to comply with the requirements of the **Ancillary Services** agreement.

DRSC.11.1.3 ~~Each~~ **Demand Response Provider** shall notify **The Company** of any change to the **Plant** or **Apparatus** which they own, operate, control or manage such they are no longer able to satisfy the conditions specified in the **Ancillary Services** agreement and/or the relevant provisions of the **DRSC**. Such changes shall be notified to **The Company** in accordance with the terms of the **Ancillary Services** agreement.

DRSC.11.2 Operational Notification Procedures for Demand Response Providers

DRSC.11.2.1 All **Demand Response Providers** are required to undertake an **Operational Notification** procedure which shall comprise a **Demand Response Unit Document (DRUD)**.

DRSC.11.2.2 The format of the **Demand Response Unit Document (DRUD)** shall take the form shown in DRSC.A.1 and shall provide sufficient information to demonstrate the **Plant** and **Apparatus** or **Demand Unit(s)** which a **Demand Response Provider** owns, operates, controls or manages, is capable of satisfying the full requirements of the **Ancillary Services** agreement and the applicable requirements of the **DRSC**. The compliance requirements can be simplified to a single operational notification stage as well as be reduced as agreed with **The Company**. **Demand Response Providers** shall be required to submit a new **DRUD** for each subsequent **Demand Unit** added to its portfolio.

DRSC.11.2.3 When the **Demand Response Provider** has submitted a final **DRUD** to the satisfaction of **The Company**, which clearly demonstrates full compliance with the **Ancillary Services** agreement, **The Company** shall issue a **Final Operational Notification** to the **Demand Response Provider**.

### DRSC.11.3 COMPLIANCE

#### DRSC.11.3.1 Responsibility of the Demand Response Provider

DRSC.11.3.1.1 **Demand Response Providers** are required to satisfy the requirements of the **Ancillary Services** agreement which shall include satisfying the applicable requirements of this **Demand Response Services Code**.

DRSC.11.3.1.2 Should the **Demand Response Provider** wish to modify the technical capability of the **Plant** and **Apparatus** or **Demand Unit(s)** which it owns, operates, controls or manages and which affects its compliance with the **Ancillary Services** agreement, it should notify and agree any timescales for the change with **The Company** prior to making any change.

DRSC.11.3.1.3 Any operational incidents or failure of the **Plant** and **Apparatus** or **Demand Unit(s)** owned, operated, controlled or managed by the **Demand Response Provider** which impacts its ability to satisfy the compliance requirements detailed in this **Demand Response Services Code** shall be notified to **The Company** as soon as possible after occurrence of the incident.

DRSC.11.3.1.4 Any planned test schedules and procedures to verify compliance of the **Plant** and **Apparatus** or **Demand Unit(s)** owned, operated, controlled or managed by the **Demand Response Provider** shall be submitted to **The Company** in advance of the tests. **The Company** shall assess the test schedules and procedures in a timely manner prior to agreeing that the **Demand Response Provider** can carry out the tests.

DRSC.11.3.1.5 **The Company** may witness such tests and record the performance of the **Plant** and **Apparatus** owned, operated, controlled or managed by the **Demand Response Provider** to verify compliance with the **Ancillary Services** agreement and the **Demand Response Services Code**.

#### DRSC.11.3.2 Role of The Company

DRSC.11.3.2.1 **The Company** shall assess the compliance of the **Demand Response Provider** and shall undertake monitoring throughout the life time of the **Plant** and **Apparatus** or **Demand Unit(s)** owned, operated, controlled or managed by the **Demand Response Provider** to ensure compliance with the requirements of the **Ancillary Services** agreement. **The Company** shall inform the **Demand Response Provider** of the outcome of such assessment.

DRSC.11.3.2.2 **The Company** may require **Demand Response Providers** to carry out compliance tests and simulations according to a repeat plan or general scheme or replacement of equipment which may have an impact on the compliance of the **Plant** and **Apparatus**

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or **Demand Units** owned, operated, controlled or managed by the **Demand Response Provider** as detailed in DRSC.11.3.1.3 and DRSC.11.3.1.4. **The Company** shall inform the **Demand Response Provider** of the results of these tests.

DRSC.11.3.2.3 As part of this compliance process, the **Demand Response Provider** shall provide the following items:-

- (a) Relevant documentation and certificates associated with the compliance process.
- (b) Details of the technical data required to ensure compliance with the **Ancillary Services** agreement.
- (c) Steady state and dynamic models (as applicable) of their **Demand Units** or **Plant** and **Apparatus** (or equivalent) as required and agreed with **The Company**.
- (d) Timelines for the submission of system data required to perform **System** studies.
- (e) Study results showing the expected steady state and dynamic performance of the **Plant** and **Apparatus** or **Demand Unit(s)** or the performance of their **Demand Response Service** on an aggregated basis as required and agreed with **The Company**.
- (f) Submission of registered **Equipment Certificates** or otherwise as agreed with **The Company**.
- (g) Conditions and procedures for the use of relevant **Equipment Certificates** issued by an **Authorised Certifier** to a **Demand Response Provider** or equivalent to the satisfaction of **The Company**.

DRSC.11.3.2.4 If compliance tests or simulations cannot be carried out as agreed between the **Demand Response Provider** and **The Company** due to reasons attributable to **The Company**, then **The Company** shall not unreasonably withhold the **Operational Notification** referred to in DRSC.11.2.3.

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#### DRSC.11.4 Compliance Testing

##### DRSC.11.4.1 Common Provisions for Compliance Testing

DRSC.11.4.1.1 The purpose of compliance testing is to ensure that the **Plant** and **Apparatus** or **Demand Unit(s)** owned, operated, controlled or managed by a **Demand Response Provider** is capable of satisfying the requirements of the **Ancillary Services** agreement and applicable sections of this **Demand Response Services Code** in addition to verifying that the models and data submitted provide a true and accurate representation of the **Plant** as built.

DRSC.11.4.1.2 Notwithstanding the minimum requirements for compliance testing detailed in DRSC.11.4 of this **Demand Response Services Code**, **The Company** shall:-

- (a) Allow the **Demand Response Provider** to carry out an alternative set of tests provided that they are efficient and sufficient to demonstrate that the **Plant** and **Apparatus** or **Demand Unit(s)** owned, operated, controlled or managed by a **Demand Response Provider** is capable of satisfying the requirements of the **Ancillary Services** agreement and the applicable sections of the **Demand Response Services Code**.
- (b) Require the **Demand Response Provider** to carry out additional or alternative tests (where reasonable) to those specified in DRSC.11.5 where they would otherwise be insufficient to demonstrate compliance with the **Ancillary Services** agreement.
- (c) Require the **Demand Response Provider** to be responsible for carrying out the tests in accordance with the requirements specified in DRSC.11.4 and DRSC.11.5 of the **Demand Response Services Code**. **The Company** shall cooperate with the



**Demand Response Provider** and will not unduly delay the scheduling of the tests.

DRSC.11.4.1.3 **The Company** may witness such tests (either on site or remotely from **The Company's** control room) to record the performance of the **Demand Response Providers** capability to verify compliance with the **Ancillary Services** agreement and the **Demand Response Services Code**. Where **The Company** witnesses the tests remotely, the **Demand Response Provider** shall provide the monitoring equipment necessary to record all relevant test signals and measurements in addition to ensuring that necessary representatives from the **Demand Response Provider** are available on site for the entire testing period. Signals specified by **The Company** shall be provided. If for selected tests, **The Company** wishes to use its own equipment to record performance, **The Company** will inform the **Demand Response Provider** if it wishes to witness the tests.

DRSC.11.5 Compliance Testing for Demand Response Providers with Demand Response Active Power Control, Reactive Power Control and Transmission Constraint Management

DRSC.11.5.1 Demand Modification Tests

DRSC.11.5.1.1 **Demand Response Providers** who have signed an **Ancillary Services** agreement with **The Company** to provide **Demand Response Active Power Control, Demand Response Reactive Power Control** or **Demand Response Transmission Constraint Management**, are required to demonstrate (through site tests) the capability of the **Plant and Apparatus** or **Demand Unit(s)** they own, operate, control or manage to satisfy the requirements of the **Ancillary Services** agreement and the applicable requirements of DRSC.5. The site tests should demonstrate the capability of the **Demand Response Providers** ability to operate with instruction over the agreed timeframes, **Demand** range and duration pursuant to the terms of the **Ancillary Services** agreement. The tests can be completed individually or as part of a **Demand** aggregation scheme.

DRSC.11.5.1.2 The tests shall be carried out either by instruction from **The Company's Control Centre** or by site tests through injections applied to the **Plant and Apparatus** or **Demand Unit(s)** owned, operated, controlled or managed by the **Demand Response Provider**.

DRSC.11.5.1.3 The test shall be deemed as passed if the requirements of the **Ancillary Services** agreement have been satisfied and the applicable requirements of DRSC.5 demonstrated to the satisfaction of **The Company**.

DRSC.11.5.1.4 A list of references to **Equipment Certificates** issued by an **Authorised Certifier** (or otherwise) as agreed with **The Company**, which can be supplied by the **Demand Response Provider** to demonstrate part of the evidence of compliance;

DRSC.11.5.2 Disconnection and Reconnection of Static Compensation Facilities

DRSC.11.5.2.1 **Demand Response Providers** who have signed an **Ancillary Services** agreement with **The Company** to provide **Demand Response Active Power Control, Demand Response Reactive Power Control** or **Demand Response Transmission Constraint Management** and have also agreed to disconnect or reconnect (or both) static compensation facilities when receiving an instruction from **The Company** in accordance with the requirements of the **Ancillary Services** agreement and DRSC.5.3, shall be required to demonstrate the performance of the **Plant and Apparatus** or **Demand Unit(s)** they own, operate, control or manage to satisfy these requirements. These requirements can be demonstrated individually or collectively as part of a demand aggregation scheme.

DRSC.11.5.2.2 The tests shall be carried out either by instruction from **The Company's Control Centre** or by site tests resulting in the disconnection and subsequent re-connection of



the static compensation facilities.

DRSC.11.5.2.3 The test shall be deemed as passed if the requirements of the **Ancillary Services** agreement have been satisfied and the applicable requirements of DRSC.5.3 demonstrated to the satisfaction of **The Company**.

DRSC.11.6 Compliance Simulation

DRSC.11.6.1 Common Provisions on Compliance Simulations

DRSC.11.6.1.1 **Demand Response Providers** who agree to provide **Demand Response Very Fast Active Power Control** are required to demonstrate their ability to satisfy the requirements of the **Ancillary Services** agreement and DRSC.7 through necessary simulation studies to the satisfaction of **The Company**.

DRSC.11.6.1.2 **Demand Response Providers** who have contracted to provide a **Demand Response Very Fast Active Power Control** service, are required to submit further simulation studies where there has been a development, replacement or modernisation of the **Plant** and **Apparatus** or **Demand Unit(s)** owned, operated, controlled or managed by the **Demand Response Provider**, or **The Company** has identified a non-compliance with the **Demand Response Provider's** ability to satisfy the requirements of the **Ancillary Services** agreement or DRSC.7.

DRSC.11.6.1.3 Notwithstanding the requirements of DRSC.11.6.1.1 and DRSC.11.6.1.2 **The Company** shall be entitled to:-

- (a) Allow the **Demand Response Provider** to carry out an alternative set of simulations provided that they are efficient and sufficient to demonstrate that the **Plant** and **Apparatus** or **Demand Unit(s)** owned, operated, controlled or managed by the **Demand Response Provider** is capable of satisfying the requirements of the **Ancillary Services** agreement and the applicable sections of the **Demand Response Services Code**.
- (b) Require the **Demand Response Provider** to carry out additional or alternative simulations to those specified in DRSC.11.6.1.1 and DRSC.11.6.1.28 where they would otherwise be insufficient to demonstrate compliance with the **Ancillary Services** agreement.

DRSC.11.6.1.4 **The Company** may check that the **Demand Response Provider** complies with the requirements of the **Ancillary Services** agreement and the applicable sections of the **Demand Response Services Code** by carrying out its own compliance simulations based on the simulation reports, models and test measurements.

DRSC.11.6.1.5 **The Company** will supply upon request from the **Demand Response Provider**, data to enable the **Demand Response Provider** to carry out the required simulations in accordance with the requirements of the **Ancillary Services** agreement and DRSC.11.6.

DRSC.11.7 Additional Testing requirements for Non-Embedded Customers and CUSC Parties who are also Demand Response Providers

DRSC.11.7.1 **Non-Embedded Customers** and **CUSC Parties** who are also **Demand Response Providers** shall be required to execute a demand modification test after two consecutive unsuccessful responses in the operational environment or at least every year as agreed with **The Company**.

DRSC.11.7.2 Each **Non-Embedded Customer** and **CUSC Party** who are also **Demand Response Providers** and provide demand response low frequency demand disconnection shall execute a low frequency demand disconnection test at least once every three years.

## APPENDIX I – DRSC.A1

Format of the **Demand Response Unit Document (DRUD)**

### **Demand Response Unit Document (DRUD)** **Statement of Compliance for Demand Response Providers**

#### **Contract company details**

|                         |  |
|-------------------------|--|
| Contracted company name |  |
| Primary contact name    |  |
| Contact number /s       |  |
| Email address           |  |

#### **Demand Response Service Details**

|   |  |
|---|--|
| Contract ID   |  |
| Type of <b>Demand Response Service</b> type,                |  |
| Asset type,   |  |
| Unit make up  |  |
| Aggregation methodology (if appropriate)                    |  |
| Maximum capacity of the <b>Demand Response Service</b> (MW) |  |
| <b>Equipment Certificates</b> (as applicable)_              |  |
| Unit location/ connection point / ID                        |  |
| Contract signed date  |  |
| Service start date  |  |
| Desired test date   |  |

#### **Compliance Requirements**

| <b>DRSC Requirement</b>   | <b>Compliance Y/N</b> | <b>Demand Response Provider Statement</b> |
|---|-----------------------|---|
| All documentation and certificates demonstrating compliance with the <b>DRSC</b> .  |                       |   |
| Details of the technical data required to ensure compliance with the <b>Ancillary Services</b> agreement.   |                       |   |
| Steady state and dynamic models (or equivalent information) of <b>Plant</b> and <b>Apparatus</b> or <b>Demand Unit(s)</b> .                                     |                       |   |
| Timelines for the submission of system studies or equivalent data.  |                       |   |
| Study results showing the expected steady state and dynamic performance of the <b>Plant</b> and <b>Apparatus</b> or <b>Demand Unit(s)</b>                       |                       |   |
| Conditions and procedures including the scope for registering <b>Equipment Certificates</b> or otherwise as agreed with <b>The Company</b> .                    |                       |   |
| Conditions and procedures for the use of relevant <b>Equipment Certificates</b> issued by an <b>Authorised Certifier</b> to a <b>Demand Response Provider</b> . |                       |   |
| Operational Metering Data to be submitted in accordance with <b>Ancillary Services</b> agreement.   |                       |   |
| Ability to receive instructions to and from <b>The Company</b> accordance with the <b>Ancillary Services</b> agreement.   |                       |   |

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| DRSC Requirement   | Compliance<br>Y/N | Demand Response Provider<br>Statement |
|--|-------------------|---------------------------------------|
| Ability to operate over <b>Frequency</b> range as specified in DRSC.5.1(a).  |                   |                                       |
| Ability to operate over voltage range as specified in DRSC.5.1(b).   |                   |                                       |
| Ability to withstand a rate of change of system frequency up to a maximum of 1Hz per second as measured over a 500ms timeframe as specified in DRSC.5.1(i).                                  |                   |                                       |
| <b>Non-Embedded Customers</b> who are also <b>Demand Response Providers</b> ability to switch static compensation equipment into or out of service in accordance with DRSC5.3 as applicable. |                   |                                       |
| Deadband settings as applicable.   |                   |                                       |
| Control system block diagrams, parameters and settings as applicable.  |                   |                                       |

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| Declaration  |
| Declaration – to be completed by <b>Customer</b> or the <b>Demand Response Provider's</b> appointed technical representative                     |
| I declare that for all the <b>Demand Response Provider's</b> information associated with this contract:  |
| 1. Compliance with the requirements of the <b>Demand Response Services Code</b> is achieved.   |
| 2. The commissioning checks have been successfully completed.  |
| Name:  |
| Signature:   |
| Company Name:  |
| Position:  |
| Declaration – to be completed by <b>The Company</b> Witnessing Representative if applicable. Delete if not witnessed by the <b>The Company</b> . |
| I confirm that I have witnessed the commissioning checks in this document on behalf of   |
| _____ and that the results are an accurate record of the checks  |
| Name:  |
| Signature:   |
| Company Name:  |

< END OF DEMAND RESPONSE SERVICES CODE >



