FIRM FREQUENCY RESPONSE (DYNAMIC)

TENDER RULES AND STANDARD CONTRACT TERMS

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NATIONAL GRID ELECTRICITY SYSTEM OPERATOR LIMITED

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<u>SECTION 1</u> OVERVIEW OF FFR CONTRACTING PROCESS

1.1 CONTRACT FRAMEWORK

1.1.1 The structure of this **Document** and **Framework Agreements** is as follows:

(a) **Overall Structure**

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This **Document** together with the **Framework Agreements** have been designed to create a straightforward and transparent contracting process.

(b) This Document

This **Document** contains the requirements for interested parties to offer to provide **Firm Frequency Response** to **National Grid**, and the detailed service terms. It is to be read and construed alongside the applicable **Framework Agreements** and the contents of **FFR Tenders**.

(c) **Framework Agreements**

The **Framework Agreement** gives contractual effect to the relevant provisions of this **Document** as between **National Grid** and the **FFR Provider**, and also contains the service data specific to the **FFR Provider's** plant and equipment that it wishes to tender to provide **Firm Frequency Response**.

(d) **FFR Contract**

An **FFR Contract** is not a document, but is the terminology used to describe the legally binding contract between **National Grid** and an **FFR Provider** created when **National Grid** accepts an **FFR Tender**.

- 1.1.2 This **Document** may be amended or re-issued by **National Grid** from time to time, and any amendment and re-issue of this **Document** shall generally supersede this **Document** and be incorporated in the existing **FFR Contract(s)** as between **National Grid** and that **FFR Provider**.
- 1.1.3 Each **Framework Agreement** shall, as between **National Grid** and the **FFR Provider**, give contractual effect to this **Document** (as amended from time to time subject to and in accordance with paragraph 5.1) and the provisions of this **Document** shall be deemed to be incorporated therein, save that **National Grid** and the **FFR Provider** may agree, by way of **Special Condition(s)**, to modify, dis-apply and/or supplement any provision of this **Document** where necessary to accommodate unit specific or **Site** specific technical requirements or as otherwise contemplated by this **Document**, and this **Document** shall be read and construed accordingly.
- 1.1.4 For the avoidance of doubt, nothing in this **Document** or any **Framework Agreement** shall create any rights and/or obligations as between two or more **FFR Providers**.
- 1.1.5 There are a variety of **Framework Agreements**, each designed for different types of service provider.
- 1.1.6 The terms of a **Framework Agreement** shall remain in force until terminated either:-
- (a) by either or both **Parties** in accordance with this **Document**; or
- (b) in accordance with the terms of the **Framework Agreement**.
- 1.1.7 After receipt of a **FFR Tender** and following the appropriate assessment period **National Grid** shall either accept or reject it by notifying the **FFR Provider** of the same. The acceptance of an **FFR Tender** in accordance with this **Document** will constitute a legally binding **FFR Contract** between the **FFR Provider** and **National Grid** for provision by the **FFR Provider** of **Firm Frequency Response**.

1.2 FFR UNITS AND CONTRACTED FFR UNITS

1.2.1 An **FFR Tender** cannot be submitted with respect to any items of **Plant** and **Apparatus** until the owner or operator of that **Plant** or **Apparatus** has first acceded to the terms of this **Document** by entering into

a **Framework Agreement**, until the relevant details for that **Plant** and **Apparatus** have been approved by **National Grid** for the purposes of that **Framework Agreement**, and until **National Grid** has performed all necessary pre-qualifications and assessments of the capability of that **Plant** and **Apparatus**.

- 1.2.2 Plant and Apparatus which has met the requirements of sub-paragraph 1.2 is referred to in this **Document** as an **FFR Unit**.
- 1.2.3 An **FFR Unit** may comprise either a single **Generating Unit** or source of controllable **Demand** or other **Plant** and **Apparatus**, or a collection of such **Plant** and **Apparatus** located (at the same or different **Premises**) which together can meet the requirements of sub-paragraph 2.2.2 via a single point of contact and control.
- 1.2.4 An **FFR Unit** may also comprise **Plant** and **Apparatus** which is established and registered as a **BM Unit** under and in accordance with the **Balancing and Settlement Code**.
- 1.2.5 National Grid reserves the right at any time during the subsistence of a Framework Agreement to require the party thereto to submit to (at its own cost) an FFR Pre-Qualification Assessment or a Reproving Test with respect to any FFR Unit, and in respect thereof the provisions of Section 4 shall apply. Failure to submit to, or pass such Reproving Test shall entitle National Grid to terminate that Framework Agreement in respect of that FFR Unit in accordance with sub-paragraph 3.14.
- 1.2.6 An FFR Unit which is the subject of an extant FFR Contract is referred to in the Document as a Contracted FFR Unit.

1.3 STATIC FIRM FREQUENCY RESPONSE

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- 1.3.1With effect from the effective date of Issue #11 of this Document, National Grid shall cease procurement
of static Firm Frequency Response under this Document and all further procurement of Firm
Frequency Response under this Document shall be for dynamic Firm Frequency Response only.
- 1.3.2 For the avoidance of doubt, with effect from the date referred to in sub-paragraph 1.3.1, **National Grid** shall commence procurement of static **Firm Frequency Response** on a day ahead basis under and in accordance with the terms of a separate procurement and contracting framework.

<u>SECTION 2</u> TENDER RULES

2.1 INTRODUCTION

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- 2.1.1 This Section 2 describes the tendering process by which **National Grid** will procure **Firm Frequency Response** from prospective **FFR Providers**. Only if an **FFR Tender** submitted pursuant to this process is accepted by **National Grid** (or where the context otherwise requires) will the provisions of Section 3 and the remainder of this **Document** apply with respect to the provision of and payment for **Firm Frequency Response** in relation to the **Contracted FFR Unit** in question.
- 2.1.2 The tendering process referred to in this Section 2 is more particularly described in the **FFR Tender Procedure** which **National Grid** publishes on its **Industry Information Website**. **National Grid** reserves the right to update the **FFR Tender Procedure** from time to time, and in the event of any conflict or inconsistency between the **FFR Tender Procedure** and this Section 2 then the former shall prevail.

2.2 TENDER PARTICIPATION REQUIREMENTS

- 2.2.1 It shall be a pre-condition to participating in any tender process described in this Section 2 that, at the time of submission of an FFR Tender and in respect of the FFR Unit in question, there subsists a Framework Agreement between National Grid and the FFR Provider relating to that FFR Unit.
- 2.2.2 **National Grid** expects that, to be eligible as an **FFR Unit** for approval by **National Grid** for the purposes of a **Framework Agreement**, all **Plant** and **Apparatus** will be capable of complying with each of the following mandatory requirements with respect to **Firm Frequency Response**:-
 - (a) the capability (demonstrable to **National Grid**'s reasonable satisfaction) to provide **Response** of at least 1MW (or as may otherwise be advised by **National Grid** from time to time);
 - (b) for dynamic Firm Frequency Response, the capability to operate in a Frequency Sensitive Mode so as to provide Response within the Primary Response and/or Secondary Response and/or High Frequency Response timescales;
 - (c) for static Firm Frequency Response, the availability of a constant level of Demand or Generation and the capability to provide Response by automatic operation of a Relay following the relevant Frequency excursion; NOT USED
 - (d) for both dynamic and static Firm Frequency Response, the availability of metering and/or monitoring facilities reasonably acceptable to National Grid; and
 - (e) the capability to comply in all respects with the **Demand Response Services Code** (where applicable).
- 2.2.3 Without prejudice to sub-paragraph, 2.2.2 it shall be a further condition to participating in any tender process that an **FFR Unit** the subject of an **FFR Tender** with a tendered **Service Term** commencing in the immediately following calendar month shall have passed an **FFR Pre-Qualification Assessment**.
- 2.2.4 Notwithstanding paragraphs 2.2.2 and 2.2.3, National Grid may approve for the purposes of a Framework Agreement an FFR Unit which comprises Plant and Apparatus which is dependent on the carrying out of works for the construction or modification, and commissioning, of such Plant and Apparatus so as to meet the requirements of this paragraph 2.1.22.1.22.2.2, but in such case that Framework Agreement must contain the Mandatory Works Provisions.
- 2.2.5 It shall be a further pre-condition to participating in any **FFR Tender** in respect of **Additional Response**, that the **Framework Agreement** must be amended to reflect the **Additional Response**, including the methodology to be applied for the calculation of deductions from payments in the event of under-delivery.

2.3 FFR TENDER SUBMISSION DEADLINE

- 2.3.2 Each **FFR Tender** shall be submitted in respect of a single complete calendar month, or two or more consecutive complete calendar months, which shall individually comprise tendered **Service Month**(s) and together a tendered **Service Term**.
- 2.3.3 All **FFR Tenders** must be submitted by no later than 17:00 hours on the first **Business Day** of the calendar month immediately preceding commencement of the tendered **Service Term**, and in accordance with the prevailing **FFR Tender Procedure**.

2.4 CONTENTS OF FFR TENDERS

- 2.4.1 Save to the extent otherwise stipulated in the prevailing **FFR Tender Procedure**, each **FFR Tender** shall specify:-
 - (a) the identity of the tendered **FFR Unit** (including the related meter point administration number(s) (if available));
 - (b) the tendered **Service Term**;
 - (c) the tendered **Service Windows**, which may be different for **Working Days**, Saturdays and Sundays/**Bank Holidays**;
 - (d) the tendered **Contract Prices**;
 - (e) any **Utilisation Restrictions**;
 - (f) where applicable, the identity of, and other details in respect of, any agent appointed or to be appointed under and in accordance with paragraph 5.16 (save to the extent already specified in the relevant **Framework Agreement**);
 - (g) whether or not **Firm Frequency Response** from the **tendered FFR Unit** is to be treated at all times during that tendered **Service Term** as an **Applicable Balancing Service** in accordance with the **ABSVD Methodology Statement** and Section Q.6.4 of the **Balancing and Settlement Code;**
 - (h) <u>NOT USED</u>whether the **FFR Tender** is for dynamic **Firm Frequency Response** and if so:
 - (i) a Minimum MEL and Maximum SEL;
 - (h) a Part Load Point range within the band defined by the Minimum MEL and Maximum SEL, shown by a Maximum Part Load Point and a Minimum Part Load Point (which for the avoidance of doubt may be equal so as to infer a single Part Load Point);

the applicable FFR Capability Data Tables which, in the case of an FFR Tender for Additional Response, shall provide aggregated data for the Initial Response and the Additional Response. If the tendered Service Term for the Additional Response exceeds the FFR Contracted Service Term for the Initial Response, the FFR Provider shall also provide the FFR Capability Data Tables in respect of the Additional Response only;

(k)

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- (1)(j) any period(s) in that tendered Service Term in respect of which, in order to provide such Firm Frequency Response, the FFR Provider would need to apply for additional Transmission Entry Capacity and/or STTEC and/or LDTEC for the relevant Connection Site pursuant to sub-paragraph <u>3.4.33.4.3</u>3.4.2(b), together with the amount (in MW) of such additional capacity;
- (m) NOT USED whether the FFR Tender is for static Firm Frequency Response, and if so:-

(n) a single **Frequency Trigger**;

(o)(k) (ii) the Automatic Response Energy Deliverable;

(p)(1) (k) such other data and information as may be specified from time to time in the prevailing **FFR Tender Procedure** or in any **Framework Agreement**.

together the "Tendered Service Parameters".

2.4.2 An **FFR Provider** may:

- (a) submit up to (but not more than) three **FFR Tenders** in respect of the same **FFR Unit**, and furthermore any two or all of such **FFR Tenders** may comprise tendered **Service Terms** which overlap provided that where such **FFR Tenders** are mutually exclusive the **FFR Provider** shall submit them separately and **National Grid** may only accept one such **FFR Tender** in respect of the **FFR Unit** in question; or
- (b) submit an **FFR Tender** for **Additional Response** in respect of a **Contracted FFR Unit** with an existing **FFR Contract** (under which it is already contracted to provide **Firm Frequency Response**, in this context referred to as the "**Initial Response**"), provided that:
 - (i) the Tendered Service Parameters for the Additional Response shall be the same as the Tendered Service Parameters specified for the Initial Response, other than the amount of Response, tendered Prices, the FFR Capability Data Tables and the tendered Service Term; and
 - (ii) where in the sole judgement of National Grid an FFR Tender in respect of Additional Response does not comply with the provisions of sub-paragraph 2.4.2(b), that FFR Tender shall be a non-compliant tender and the provisions of sub-paragraph 2.6.2 shall apply.
- 2.4.3 All FFR Tenders shall:-
 - (a) be fully compliant (without any qualification) with the requirements of this **Document**;
 - (b) not be accompanied by statements that could be construed by **National Grid** as rendering the **FFR Tender** equivocal and/or prevent its evaluation on an equal basis with other **FFR Tenders**; and
 - (c) subject always to sub-paragraph 2.4.3(a), be submitted by the methods or methods prescribed in the prevailing **FFR Tender Procedure** to be received on or by no later than the time and date specified in paragraph 2.3.
- 2.4.4 If there are any amendments and/or additions which **FFR Providers** require to be made to Section 3 and/or the **Pro-Forma Sheets** as a condition of **National Grid**'s acceptance of an **FFR Tender**, these shall be indicated either on a separate sheet or by annotation on a copy of this **Document** or as may otherwise be prescribed by the prevailing **FFR Tender Procedure**, and in each case shall accompany the **FFR Tender**.
- 2.4.5 If any further information is required to assist with the preparation of an **FFR Tender**, the **FFR Provider** should request this information from **National Grid**. **National Grid** may consider it necessary to copy any further information given in response to specific enquiries to all other **FFR Providers**. No further information will be issued by **National Grid** after the time and date specified in paragraph 2.3.
- 2.4.6 No costs or expenses incurred by **FFR Providers** in the course of preparing and/or submitting any **FFR Tender** shall be paid by **National Grid**.
- 2.4.7 The contents of each **FFR Tender** shall be treated as private and confidential. **FFR Providers** must not divulge or release details of the **FFR Tender** to any third party, other than on an "in confidence"

basis to those **Parties** having a legitimate need to know, or whom they need to consult for the purpose of preparing a tender.

2.5 WARRANTY AND UNDERTAKING

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By submitting an **FFR Tender**, each **FFR Provider** hereby warrants and undertakes to **National Grid** that it has neither fixed nor adjusted the tendered **Contract Prices** under or in accordance with any agreement or arrangement with any other person, and that it has neither communicated to a person (other than its professional advisers) the amount or approximate amount of the tendered **Contract Prices** (other than in confidence in order to obtain quotations necessary for insurance purposes) nor entered into any agreement or arrangement with any other person to restrain that other person from tendering or to fix or adjust the tendered **Contract Prices** to be submitted by that other person, and each **FFR Provider** indemnifies **National Grid** from and against any losses, liabilities, claims, expenses and **Demands** which **National Grid** might suffer as a result of the **FFR Provider** being in breach of the warranty and undertaking set out in this paragraph 2.5.

2.6 WITHDRAWAL AND DISQUALIFICATION OF FFR TENDERS

- 2.6.1 An FFR Provider may withdraw an FFR Tender at any time no later than the fifth Business Day of the calendar month immediately preceding commencement of the tendered Service Term (being seven Business Days prior to the date specified in sub-paragraph 2.8.1 for acceptance by National Grid of that FFR Tender). Such withdrawal shall only be effective where sent by first class prepaid post, e-mail or facsimile to National Grid at the postal address, e-mail address or facsimile number stated in the Framework Agreement to be received by no later than 11:00 hours on the Business Day on which such withdrawal is to be effective. Where such withdrawal is received after 11:00 hours on a Business Day or on any Non-Business Day it shall not be effective until 09:00 hours on the next following Business Day. National Grid may accept an FFR Tender at any time until a withdrawal is effective.
- 2.6.2 If, in the sole judgment of National Grid, an FFR Provider has failed to submit a compliant FFR Tender, National Grid reserves the right to:-
 - (a) accept that **FFR Tender**; or
 - (b) disqualify that **FFR Tender**; and/or
 - (c) take any other action as it deems appropriate in the circumstances including requesting the **FFR Provider** to amend any information set out in the **FFR Tender** (but not the prices) and resubmit a non-compliant **FFR Tender** so that it is made compliant.
- 2.6.3 **National Grid**'s decision as to whether or not an **FFR Tender** is compliant shall be final, and the **FFR Provider** may be notified of its decision without prior consultation or explanation.

2.7 TENDER ASSESSMENT

- 2.7.1 As soon as reasonably practicable following receipt of the **FFR Tender**, **National Grid** may request that the **FFR Provider** provides clarification with regard to any one or more items of information contained in the **FFR Tender** for the purpose of enabling **National Grid** to assess that **FFR Tender**, and the **FFR Provider** shall provide such clarification in a timely manner.
- 2.7.2 When assessing **FFR Tenders**, **National Grid** shall take account (in no particular order) of the **Tender** Assessment Principles.

2.8 ACCEPTANCE AND REJECTION

2.8.1 No later than the twelfth **Business Day** of the calendar month immediately preceding commencement of the tendered **Service Term**, **National Grid** shall notify in writing each **FFR Provider** whose **FFR Tender(s)** has been accepted of its acceptance decision, which shall be final and binding. Such acceptance shall only be effective where sent by first class prepaid post, e-mail or facsimile to **the FFR Provider** at the postal address, e-mail address or facsimile number stated in the **Framework** Agreement (or otherwise notified by the **FFR Provider** to **National Grid** for such purpose), and for the avoidance of doubt publication by **National Grid** on its **Industry Information Website** of details of **FFR Tender** acceptances shall not constitute acceptance for the purposes of this paragraph 2.8. Any **FFR Tenders** in respect of which the **FFR Provider** is not so notified of acceptance by the twelfth **Business Day** of the calendar month immediately preceding commencement of the tendered **Service Term** shall be deemed to have been rejected.

- 2.8.2 Subject to sub-paragraph 2.8.4, acceptance by **National Grid** of each **FFR Tender** shall constitute formation of a **FFR Contract** in relation to each applicable tendered **FFR Unit**, which shall be personal to the **FFR Provider** and may not be assigned otherwise than in accordance with paragraph 5.5 without the consent of **National Grid** (not to be unreasonably withheld or delayed).
- 2.8.3 Upon notification by **National Grid** to the **FFR Provider** of acceptance of the **FFR Tender**, for the duration of the tendered **Service Term**, the provisions of Section 3 shall apply in respect of that **Contracted FFR Unit** (and/or, where applicable in accordance with sub-paragraphs 3.7, any **FFR Contracted Unit** nominated as a substitute thereof).
- 2.8.4 As a condition of accepting any **FFR Tender**, **National Grid** reserves the right at its sole discretion to require amendments and/or additions to any or all of Section 3, Section 4 and Section 5 and/or the **Pro-Forma Sheets** including without limitation where necessary and/or desirable to take account of or otherwise reflect the technical or other conditions or features of the tendered **FFR Unit**.
- 2.8.5 Amendments and/or additions to this **Document** either indicated by an **FFR Provider** pursuant to subparagraph 2.4.4 or required by **National Grid** pursuant to sub-paragraph 2.8.4, shall be incorporated into the relevant **FFR Contract**(s) by way of the inclusion of such amendments and/or additions as **Special Conditions** in Appendix 2 of the relevant **Framework Agreement**, and for the avoidance of doubt such amendments and/or additions shall have effect only with respect to the **FFR Tender** in question, and for the avoidance of doubt shall not thereby be incorporated into the **FFR Contract** between **National Grid** and any other **FFR Provider**.
- 2.8.6 Where National Grid has accepted an FFR Tender in respect of a Contracted FFR Unit which is the subject of Mandatory Works Provisions, such acceptance shall be without prejudice to National Grid's right to terminate the resulting FFR Contract in the event the works for the construction or modification, and/or commissioning, of the relevant Plant and Apparatus are not completed upon and subject to such Mandatory Works Provisions and/or such other relevant provisions (if any) set out in the Framework Agreement.
- 2.8.7 Where **National Grid** has accepted an **FFR Tender** in respect of which the **FFR Provider** has indicated the performance of any of its obligations by an agent appointed in accordance with paragraph 5.16, such acceptance shall be conditional upon terms with respect thereof being agreed between the **Parties** and recorded in the **FFR Framework Agreement**.
- 2.8.8 Where **National Grid** has accepted an **FFR Tender** in respect of which the tendered **FFR Unit** is not a **BM Unit**, the **FFR Provider** shall (to the extent not already provided in the **FFR Tender** or in the **Framework Agreement**) provide to **National Grid** the meter point administration number in respect of that **Contracted FFR Unit** as soon as reasonably practicable following **National Grid's** acceptance of the relevant **FFR Tender**.

2.9 MARKET INFORMATION

2.9.1 To assist **FFR Providers** in the tender process described in this Section 2, **National Grid** shall, but shall be under no obligation to do so, publish on its **Industry Information Website** such information as it reasonably considers to be relevant and helpful in the preparation of **FFR Tenders**.

Post tender reports

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2.9.2 Pursuant to sub-paragraph 2.9.1, **National Grid** shall also use reasonable endeavours to publish on its **Industry Information Website**, on the same **Day** that it notifies **FFR Providers** of acceptance or rejection of **FFR Tenders** pursuant to sub-paragraph 2.8.1, –a report of **FFR Tenders** received, containing the following information:-

- (a) the identity of each tendered **FFR Unit** and each **Contracted FFR Unit** (and its location);
- (b) the name of each **FFR Provider** for each tendered **FFR Unit** and each **Contracted FFR Unit**;
- (c) if applicable, an indication of the fuel type used by each tendered **FFR Unit** and each **Contracted FFR Unit**;
- (d) an indication of which such tendered **FFR Units** were the subject of an accepted **FFR Tender**, and in respect of such accepted **FFR Tenders** an indication of which **Contracted FFR Units** were the subject of **Mandatory Works Provisions**;
- (e) the tendered **Contract Prices**; and
- (f) in respect of dynamic **Response**, the volumes of **Response** tendered as follows:
 - (i) **Primary Response** at 0.2 Hz **Frequency Deviation**;
 - (ii) **Primary Response** at 0.5 Hz Frequency Deviation;
 - (iii) **Primary Response** at 0.8 Hz **Frequency Deviation**;
 - (iv) Secondary Response at 0.2/0.2 Hz Frequency Deviation;
 - (v) Secondary Response at 0.5/0.5 Hz Frequency Deviation;
 - (vi) **High Frequency Response** at 0.2 Hz **Frequency Deviation**;
 - (vii) High Frequency Response at 0.5 Hz Frequency Deviation.;

(g) in respect of static **Response**, the volumes of **Response** tendered as follows:

- (i) Automatic Response Energy Deliverable by 5 seconds from Frequency transgression of the tendered Frequency Trigger;
- (ii) Automatic Response Energy Deliverable by 10 seconds from Frequency transgression of the tendered Frequency Trigger; and

Automatic Response Energy Deliverable by 30 seconds from Frequency transgression of the tendered Frequency Trigger.

Utilisation reports

- 2.9.3 Pursuant to sub-paragraph 2.9.1, **National Grid** shall also use reasonable endeavours to publish on its **Industry Information Website** reports containing details of **Response** volumes (in MWh) instructed (or deemed instructed) by **National Grid** in respect of each **EFA Day** pursuant to paragraph 3.3, and by reference to the categorisations of **Response** delivery set out in sub-paragraphs 2.9.2(f) and (g), and shall use reasonable endeavours to publish such reports by the end of the fifteenth **Business Day** of each calendar month with respect to **Response** volumes instructed (or deemed instructed) during the previous calendar month.
- 2.9.4 For the purposes of paragraph 5.6, each **FFR Provider** consents to the disclosure by **National Grid** of information pursuant to this paragraph 2.9 insofar as related to it and/or the contents of any **FFR Tender** submitted by it and/or any **FFR Contract** to which it is a party.
- 2.9.5 **National Grid** shall not be bound to comply with the provisions of this paragraph 2.9 with respect to the publication of information if and to the extent that to do so would in **National Grid**'s reasonable opinion restrict, distort or prevent competition in the provision of **Firm Frequency Response** or be likely to do so.

<u>SECTION 3</u> FFR CONTRACT TERMS

3.1 INTRODUCTION

- 3.1.1 The provisions of this Section 3 shall apply with respect to an **FFR Provider** who has submitted **FFR Tender(s)** which has been accepted (in whole or in part) by **National Grid** pursuant to sub-paragraph 2.8.1 so as to form an **FFR Contract** or where the context otherwise requires.
- 3.1.2 The instruction of delivery of **FFR Frequency Response** referred to in this Section 3 is more particularly described in the **FFR Service Procedure** which **National Grid** reserves the right to update from time to time, and in the event of any conflict or inconsistency between the **FFR Service Procedure** and this Section 3 then the former shall prevail.

3.2 SERVICE AVAILABILITY

- 3.2.1 Throughout each **FFR Service Window**, the **FFR Provider** shall make available **Firm Frequency Response** in the manner provided in <u>this sub-</u>paragraph <u>3.1.13.1.13.2.2 or 3.2.3 (as appropriate)</u>.
- 3.2.2 Where the **FFR Contract** comprises dynamic **Firm Frequency Response**:
- 3.2.33.2.2 <u>T</u>the FFR Provider shall, by no later than 11.00 hours on the immediately preceding EFA Day and by the method prescribed in the FFR Service Procedure, confirm availability of Firm Frequency Response from the FFR Contracted Unit in the FFR Service Windows in the following EFA Day.5
- 3.2.43.2.3 <u>I</u>if the FFR Provider stipulated in its FFR Tender a Part Load Point range (not being an identical Maximum Part Load Point and Minimum Part Load Point), then the FFR Provider shall confirm availability pursuant to <u>sub-paragraph 3.2.2 (a) above</u> by specifying a single FFR Confirmed Part Load Point for all Settlement Periods comprised within each such FFR Service Window (being a figure within the Part Load Point range), and for the avoidance of doubt the same FFR Confirmed Part Load Point need not be specified for each such FFR Service Window in a EFA Day.
- 3.2.53.2.4 Wwhere by the time specified in sub-paragraph 3.2.2(a) above no such notification is made by the FFR Provider, then if applicable that shall constitute an Event of Default for the purposes of paragraph 3.6 (but not so as to relieve the FFR Provider of its obligation to provide Firm Frequency Response in the FFR Service Window- when instructed by National Grid pursuant to paragraph 3.3).;
- 3.2.63.2.5 Wwithout prejudice to sub-paragraph 3.6.1, National Grid may at its discretion (but shall not be obliged to) notify the FFR Provider by the method prescribed in the FFR Service Procedure of such Event of Default whereupon the FFR Provider shall confirm availability in the manner required by paragraphs (a) or (b) above without further delay and in any event within one hour of receipt of such notification from National Grid.; and
- 3.2.73.2.6 Wwhere after expiry of such one hour period the FFR Provider has still not confirmed availability then that shall constitute an additional Event of Default for the purposes of paragraph 3.6 (but not so as to relieve the FFR Provider of its obligation to provide Firm Frequency Response in the FFR Service Window when instructed by National Grid pursuant to sub-paragraph 3.3).
 - 3.2.83.2.7 NOT USED. Where the FFR Contract comprises static Firm Frequency Response, the FFR Provider shall procure that the Relay is capable of being armed throughout all FFR Service Windows so as to provide Automatic Response of an amount equal to the Automatic Response Energy Deliverable, initiated by tripping of the Relay following a transgression of the System Frequency above or below the Frequency Trigger.
- 3.2.93.2.8 Notwithstanding its obligations under sub-paragraph 3.2.1, the **FFR Provider** shall notify **National Grid** by the method prescribed in the **FFR Service Procedure** forthwith upon becoming aware of any inability (howsoever caused) of any **Contracted FFR Unit** to provide **Firm Frequency Response** in all or any part of any **FFR Service Window**, including a reduction in the level of **Response** below the level set out in the **Tendered Service Parameters** ("**Reduced Availability**") and, subject to sub-paragraph 3.2.93.2.93.2.5, with effect from the start of such inability until otherwise notified by the **FFR Provider** by the method prescribed in the **FFR Service Procedure**

that the ability of the **Contracted FFR Unit** to provide **Firm Frequency Response** is fully restored, **Firm Frequency Response** shall be deemed to be unavailable from such **Contracted FFR Unit** for the purposes of sub-paragraph <u>3.5.43.5.4</u>3.5.5.

3.2.103.2.9 Following receipt of a notice under sub-paragraph 3.2.83.2.83.2.4 indicating **Reduced** Availability, National Grid may, at its sole discretion and provided that the availability of **Response** from the **Contracted FFR Unit** shall not be reduced to a level less than the greater of one (1) MW and five percent (5%) of the contracted **Response**, agree that the **Contracted FFR Unit** shall continue to be treated as available, subject to reductions in the **Availability Fee** and the level of **Response** to be provided.

3.3 SERVICE INSTRUCTION

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3.3.1 At any time prior to or during an FFR Service Window, National Grid may, in respect of any one or more Settlement Periods in that FFR Service Window, instruct the FFR Provider to operate a Contracted FFR Unit in a Frequency Sensitive Mode so as to provide Firm Frequency Response during all or part of each FFR Service Window.

(a) Where the FFR Contract comprises dynamic Firm Frequency Response:

- 3.3.2 The instruction from National Grid pursuant to sub-paragraph 3.3.1 shall be to operate the Contracted FFR Unit(s) in a Frequency Sensitive Mode so as to provide the components of Firm Frequency Response comprised within the applicable FFR Capability Data Tables, being either Primary Response and High Frequency Response, or Primary Response, Secondary Response and High Frequency Response, and in respect thereof:-;
 - (a) such **Firm Frequency Response** shall be referred to as "**Mode D Frequency Response**";
 - (b) the term "instruction" means a communication by the method prescribed in the **FFR Service Procedure**, and derivations of the term shall be construed accordingly;
 - (c) the amendment of an instruction shall be deemed to be a new instruction;
 - (a) an instruction will prevail until the first to occur of any of the following (each of which shall constitute a deemed instruction from **National Grid** to cease operating the relevant **Contracted FFR Unit** in a **Frequency Sensitive Mode** in accordance with the original instruction):-
 - (i) the expiry of the **FFR Service Window**; or
 - (ii) subject always to sub-paragraph (e) below 3.3.2(f), receipt of a subsequent instruction from **National Grid** countermanding the earlier instruction; or
 - (iii) subject always to sub-paragraph (e) <u>3.3.2(f)</u>, the **De-Synchronisation** of the **Contracted FFR Unit** to which the instruction relates (and on each such occasion of **De-Synchronisation** otherwise than on the instruction of **National Grid** the **FFR Provider** shall notify **National Grid** pursuant to sub-paragraph <u>3.4.53.4.5</u>3.4.4 of inability to provide **Firm Frequency Response**); and
 - (b) where the **Contracted FFR Unit** comprises a **BM Unit**, an instruction will not be curtailed pursuant to sub-paragraphs (a)3.3.2(de)(ii) or (iii) solely by reason of the issue by **National Grid** of a **Bid-Offer Acceptance** with respect to the **Contracted FFR Unit** to which the instruction relates unless compliance with that **Bid-Offer Acceptance** would thereby cause the **Contracted FFR Unit** to operate at level of **Output** below its prevailing **Stable Export Limit**;
 - (c) National Grid shall not, in respect of any FFR Service Window during which the FFR Provider is instructed pursuant to sub-paragraph (a)3.3.2 to provide Mode D Frequency Response, instruct the FFR Provider to provide Mode A Frequency Response in accordance with the CUSC;

- (d) where the **Contracted FFR Unit** comprises a **BM Unit**, the **FFR Provider** shall procure that in relation to that **Contracted BM Unit**:-
 - (i) the **Physical Notification** prevailing at **Gate Closure** at all times matches the **FFR Confirmed Part Load Point**;
 - (ii) at all times (unless otherwise agreed in writing with National Grid) the prevailing Maximum Export Limit is not less than the Minimum MEL and the prevailing Stable Export Limit is not more than the Maximum MEL; and
 - (iii) the **BM Unit** is able to accept an instruction from **National Grid** pursuant to the **Grid Code** to operate in a **Frequency Sensitive Mode**.
- 3.3.3 Where the **FFR Contract** comprises static **Firm Frequency Response**, the instruction from **National Grid** pursuant to sub paragraph 3.3.1 shall be a deemed instruction to arm the **Relay** with effect from the commencement of and throughout each **FFR Service Window**, and to disarm the **Relay** at the expiry of each such **FFR Service Window**.

3.4 SERVICE DELIVERY

- 3.4.1 Where the **FFR Provider** is instructed (or deemed instructed) to provide **Firm Frequency Response** pursuant to paragraph 3.3, then throughout each **FFR Service Window** it shall comply with the instruction by procuring the delivery of **Firm Frequency Response** from the **FFR Contracted Unit** in accordance with <u>this sub-paragraph 3.4.23.4 or 3.4.3 (as applicable)</u>.
- 3.4.2 Where the FFR Contract comprises dynamic Firm Frequency Response:-
- 3.4.33.4.2 <u>T</u>the FFR Provider shall operate the Contracted FFR Unit so as to provide, for any Frequency Deviation, at least the amount of Primary Response and/or Secondary Response and/or High Frequency Response set out respectively in the relevant FFR Capability Data Tables for the De-Load in question (as such tables are to be interpreted in accordance with paragraph 6.2).;
- 3.4.4<u>3.4.3</u> Tthe FFR Provider shall ensure that the Transmission Entry Capacity, and if relevant the STTEC, for the relevant Connection Site shall be sufficient to enable it to comply with its obligations under this paragraph 3.4 at all times during FFR Service Windows and in respect of each Contracted FFR Unit, and accordingly shall make timely application for sufficient Transmission Entry Capacity and/or STTEC and/or LDTEC as and when required in accordance with the CUSC.
- 3.4.5 NOT USED Where the FFR Contract comprises static Firm Frequency Response:
- 3.4.6 for the duration of the FFR Service Window, and by operation of arming of the Relay, the FFR Provider shall, following a transgression in System Frequency above or below the Frequency Trigger, procure that the Automatic Response Energy Deliverable is delivered from the Contracted FFR Unit and initiated by tripping of the Relay and sustained until the expiry of the Maximum Response Period or such longer period as National Grid may agree with the FFR Provider pursuant to sub-paragraph 3.4.3(b); and
- 3.4.7<u>3.4.4</u> the **Parties** may from time to time agree in writing that the **FFR Provider** shall sustain **Automatic Response** in accordance with this sub paragraph 3.4.3 for a period longer than that specified in sub paragraph 3.4.3(a) and for the avoidance of doubt any payments due pursuant to sub paragraph 3.5 shall be calculated accordingly.
- 3.4.83.4.5 Notwithstanding its obligations under sub-paragraph 3.4.1, the **FFR Provider** shall notify **National Grid** by the method prescribed in the **FFR Service Procedure** forthwith upon becoming aware of the inability (howsoever caused) of any **Contracted FFR Unit** to provide **Firm Frequency Response** in all or any part of any **FFR Service Window**, including any **Reduced Availability** and, subject to sub-paragraph 3.4.53.4.6, with effect from the start of such inability until notified by the **FFR Provider** by the method prescribed in the **FFR Service Procedure** that the ability of the **Contracted FFR Unit** to provide **Firm Frequency Response** is fully restored, **Firm Frequency Response** shall be

deemed to be unavailable from such **Contracted FFR Unit** for the purposes of sub-paragraph 3.5.43.5.43.5.5.

3.4.9<u>3.4.6</u> Following receipt of a notice under sub-paragraph **3.4.4**<u>3.4.5</u>, **National Grid** may, at its sole discretion and provided that the availability of **Response** from the **Contracted FFR Unit** shall not be reduced to a level less than the greater of one (1) MW and five percent (5%) of the contracted **Response**, agree that the **Contracted FFR Unit** shall continue to be treated as available, subject to reductions in the **Availability Fee** and the level of **Response** to be provided.

3.5 PAYMENT

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- 3.5.1 In respect of each calendar month and each relevant **Contracted FFR Unit**, and subject always to the following provisions of this paragraph 3.5, paragraph 3.6 and sub-paragraph 5.12.2, **National Grid** shall in accordance with paragraph 5.2 pay to the **FFR Provider** in respect of the **Initial Response** and (where applicable) the **Additional Response** an amount ("the **Availability Payment**") calculated as the **Availability Fee** (subject where applicable to adjustment in accordance with sub-paragraphs 3.2.93.2.93.2.5 or 3.4.63.4.63.4.5) multiplied by the aggregate number of hours comprised within each of the **FFR Service Windows** during that calendar month.
- 3.5.2 In addition to sub-paragraphs 3.5.1, and where the FFR Contract comprises dynamic Firm Frequency Response delivered from a Contracted FFR Unit established and registered as a BM Unit under the Balancing and Settlement Code, National Grid shall pay to the FFR Provider, in respect of each calendar month and each relevant Contracted FFR Unit, an amount ("the Response Energy Payment") in respect of the Initial Response and (where applicable) the Additional Response calculated by reference to Paragraph 4.1.3.9A of the Connection and Use of System Code and such provisions shall be deemed incorporated herein mutatis mutandis on the basis that all references therein to the Frequency Response Power Delivery Data tables set out in the Mandatory Services Agreements shall be construed as references to the FFR Power Delivery Data Tables, and all references therein to Mode A or Mode F Frequency Response shall be construed as references to Mode D Frequency Response.
- 3.5.3 Following National Grid's assessment of under-delivery of Response from a Contracted FFR Unit during an FFR Service Window pursuant to sub-paragraphs <u>3.3.13.3.13.13.2</u>, <u>3.3.13.13.23.13.3</u>, <u>3.3.13.13.23.13.3</u>, <u>3.3.13.13.23.13.4</u>, the payments falling due to the FFR Provider pursuant to this paragraph 3.5 in respect thereof shall be subject to a deduction as more particularly specified therein. If a Contracted FFR Unit is contracted to provide both Initial Response and Additional Response, any under-delivery of Response from that Contracted FFR Unit during an FFR Service Window pursuant to sub-paragraphs <u>3.3.13.3.13.13.13.2</u>, <u>3.3.13.13.23.13.43.23.13.43.23.13.43.23.13.43.23.13.43.23.13.43.23.13.43.23.13.43.23.13.44</u> shall be subject to a deduction in payments falling due to the FFR Provider by taking into account the aggregate volume and aggregate Contract Prices of the Initial Response and the Additional Response, to be calculated in accordance with the methodology set out in the Framework Agreement.
- 3.5.4 No payments shall be made by **National Grid** to the **FFR Provider** pursuant to this paragraph 3.5 in respect of any period or periods during which, in accordance with any provision of this Section 3 and in relation to any **Contracted FFR Unit**, **Firm Frequency Response** is deemed to be unavailable provided always that **National Grid** may at its sole discretion ignore a period of unavailability for the purposes of this paragraph 3.5 where the period of unavailability is short in duration and the **FFR Provider** has used all reasonable endeavours to restore availability as soon as practicable.

3.6 EVENTS OF DEFAULT AND CONSEQUENCES

3.6.1 For FFR Contracts which comprise dynamic Firm Frequency Response, eEach of the occurrences or failures specified below as an Event of Default shall result in the consequences set out in relation to such occurrence or failure:

Events of Default	Consequences
A. <u>Availability</u> In respect of any Settlement Period comprised in any FFR Service Window), Firm	National Grid may (at its option) deem the Availability Fee for the Settlement Period (s) in question to be zero

Frequency Response is unavailable or deemed unavailable. For the purposes of sub-paragraph 3.14.3, the occurrence of one or more Events of Default in respect of the same FFR Service Window in an EFA Day shall constitute a single Event of Default.	In addition, in relation to each such affected FFR Service Window , the provisions of sub-paragraph 3.5.22 shall apply unless Frequency Response is delivered by the Contracted FFR Unit at not less than 90% of the required amount for at least 95% of the duration of that affected FFR Service Window .
B. <u>Notifications of Unavailability</u> A failure by the FFR Provider to notify inability to provide Firm Frequency Response as required under and in accordance with sub- paragraph 3.2.4 or 3.4.4 (as the case may be)	The provisions of sub-paragraph 3.14.7 shall apply.
C. <u>Confirmation of Availability</u> (where Automatic Nomination <u>Facility not applicable</u>) A failure by the FFR Provider to confirm availability of Firm Frequency Response from the Contracted FFR Unit in the FFR Service Windows as required under and in accordance with sub- paragraphs 3.2.2(a),(b) or (e)	The provision of sub-paragraph 3.13.7 shall apply.
D. <u>Breach of Undertaking</u> A breach by the FFR Provider of the undertaking contained in sub- paragraph 3.10.1.	The provisions of sub-paragraph 3.14.8 shall apply.
E. Failure to apply for sufficient <u>TEC/STTEC/LDTEC</u> A failure by the FFR Provider to comply with sub-paragraph 3.4.2(b).	The provisions of sub-paragraph 3.14.6 shall apply.

3.6.2 <u>NOT USED.For **FFR Contracts** which comprise static **Firm Frequency Response**, each of the occurrences of failures specified below as an **Event of Default** shall result in the consequences set out in relation to such occurrence or failure:</u>

Events of Default	Consequences
A. Unavailability In respect of any Settlement Period comprised in any FFR Scryice Window, Firm Frequency Response is unavailable (whether as shown by monitoring pursuant to paragraph 3.13 or otherwise). For the purposes of sub-paragraph 3.14.3, the occurrence of one or more Events of Default in respect of the same FFR Service Window in an EFA Day shall constitute a single Event of Default.	In relation to each affected FFR Service Window , the provisions of sub-paragraph 3.13.3 shall apply.
B. Arming/Disarming The FFR Provider fails to arm or disarm the Relay under and in accordance with sub-paragraph 3.3.3. For the purposes of sub-paragraph 3.15.6, the occurrence of one or more Events of Default in respect of the same FFR Service Window in an EFA Day shall constitute a single Event of Default.	For the purposes of paragraph 3.5, National Grid may (at its option) in respect of that Contracted FFR Unit deem the Availability Fee for the whole of the FFR Service Window in question to be zero.

	In addition, in relation to affected FFR Service Windows in an EFA Day , the provisions of sub-paragraph 3.14.7shall apply.
C. <u>Notification of Unavailability</u> A failure by the FFR Provider to notify inability to provide Firm Frequency Response in respect of any Contracted FFR Unit forthwith in accordance with sub-paragraph 3.2.4 or 3.4.4 (as the case may be).	The provisions of sub-paragraph 3.14.7 shall apply.
D. <u>Response Delivery</u> <u>A failure (for whatever reason) of the Relay(s) to trip and/or</u> <u>Automatic Response to be provided as required by</u> paragraph 3.4.3	The provisions of sub-paragraph 3.14.7 shall apply.

- 3.6.3 For the purposes of sub-paragraphs 3.6.1 or 3.6.2, unless otherwise expressly stated, it is acknowledged that the same occurrence or failure may constitute more than one **Event of Default**.
- 3.6.4 For the avoidance of doubt, the consequences set out above in respect of any **Event of Default** shall not relieve the **FFR Provider** of any of its obligations pursuant to the **Grid Code or to Distribution Code** nor relieve either of the **Parties** from any of their obligations pursuant to the **Connection and Use of System Code** or the **Balancing and Settlement Code**.

3.7 SUBSTITUTION OF CONTRACTED FFR UNITS

- 3.7.1 If the FFR Provider anticipates that Firm Frequency Response may become unavailable from a Contracted FFR Unit during all or any part of any EFA Day, the FFR Provider may, subject always to sub-paragraphs 3.7.2 and 3.7.4 and (unless the unavailability is attributable to the technical capability of the Contracted FFR Unit) no later than two hours prior to Gate Closure for the first Settlement Period in the affected FFR Service Window(s) during that EFA Day, request by the method prescribed in the FFR Service Procedure that National Grid agree to the substitution of that Contracted FFR Unit ("the Retired FFR Unit") by any other FFR Unit at the same Grid Entry Point (or, as the case may be, Grid Supply Point) which may be specified in the relevant Framework Agreement as suitable for nomination for such purpose ("the Substitute FFR Unit").
- 3.7.2 In any notification pursuant to sub-paragraph 3.7.1, the **FFR Provider** shall indicate to **National Grid** the affected **FFR Service Windows** during the **EFA Day** in question in respect of which such substitution shall apply, provided always that:-
 - (a) an **FFR Unit** may not be nominated as a **Substitute FFR Unit** pursuant to sub-paragraph 3.7.1 in respect of an **FFR Service Window** for which it is already a **Contracted FFR Unit**; and
 - (b) an **FFR Unit** may not be nominated as a **Substitute FFR Unit** for more than one **Contracted FFR Unit** at the same time.
- 3.7.3 **National Grid** shall, as soon as reasonably practicable and by the method prescribed in the **FFR Service Procedure**, at its sole discretion, either to agree to or decline the **FFR Provider**'s request pursuant to sub-paragraph 3.7.1.
- 3.7.4 The effect of substitution in accordance with this paragraph 3.7 shall be to treat the **Substitute FFR Unit** as the **Contracted FFR Unit** for all purposes of this Section 3 and the **Framework Agreement**, and for the duration of the relevant **FFR Service Window(s)** this Section 3 and the **Framework Agreement** shall be read and construed accordingly. Without limiting the foregoing, with respect to any **Substitute FFR Unit** and for the duration of the relevant **FFR Service Windows(s)**, the technical, commercial and other parameters (including without limitation the **Availability Fee**) applicable to the **Retired FFR Unit** shall continue to apply.

3.8 GRID CODE AND DISTRIBUTION CODE

- 3.8.1 The provision by the **FFR Provider** of **Firm Frequency Response** shall not relieve it of any of its obligations or affect such obligations (where applicable) set out in the **Grid Code** (including without limitation its obligations (if any) to provide **Mode A Frequency Response** when instructed by **National Grid** pursuant to the **CUSC** and/or the **Grid Code**) or to provide **Demand** control when instructed by **National Grid** pursuant to **Grid Code** OC6) or in the **Distribution Code** of its host **Public Distribution System Operator**.
- **3.8.2** Without limiting sub-paragraph 3.8.1 each **FFR Provider** that is or becomes a **DRSC Liable User** shall, for the duration of each **FFR Contract**, comply in all respects with the **Demand Response Services Code** as it relates to **Demand Response Active Power Control**.

3.9 MAINTENANCE OF CONTRACTED FFR UNITS

The **FFR Provider** shall maintain each **Contracted FFR Unit** to such a standard that the **FFR Provider** can meet its obligations to provide **Firm Frequency Response** in accordance with the terms of this **Document** and the relevant **Framework Agreement**.

3.10 THIRD PARTY CLAIMS

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- 3.10.1 The **FFR Provider** hereby undertakes to **National Grid** that the availability and delivery of **Response** from any **Contracted FFR Unit** pursuant to and in accordance with this **Document** will not at any time during an **FFR Contracted Service Term** cause the **FFR Provider** to be in breach of or to otherwise be non-compliant with any **Connection Agreement** and/or any agreement for the supply of electricity or related services to or from that **Contracted FFR Unit** or any **Plant** and **Apparatus** associated with it.
- 3.10.2 Notwithstanding sub-paragraph 3.10.1, in the event that the **FFR Provider** complies with an instruction from **National Grid** pursuant to paragraph 3.3 in consequence of which **National Grid** suffers or incurs any loss in respect of a claim brought by any third party related to any actual or alleged breach or non-compliance by the **FFR Provider** as described in sub-paragraph 3.10.1, then the **FFR Provider** shall indemnify **National Grid** against all and any losses, liabilities, claims, expenses and demands suffered or incurred by **National Grid** in connection therewith. Such indemnity shall include any legal costs and expenses reasonably incurred in the contesting of such claims including the court costs and reasonable attorney's fees and other professional advisors' fees. The **Parties** agree and accept that, for the purposes of sub-paragraph 5.3.1, all such legal costs and expenses expressed to be the subject of such indemnity shall be treated as direct losses.
- 3.10.3 In the event of any such claim referred to in sub-paragraph 3.10.1 being made against National Grid, National Grid shall as soon as reasonably practicable give notice of the claim together with all relevant supporting documentation to the FFR Provider. The FFR Provider shall be entitled, upon written notice to National Grid and subject to National Grid receiving from the FFR Provider such reasonable undertakings as National Grid shall reasonably require to protect National Grid against damage to its name and reputation, to assume at its own expense the sole conduct of all proceedings relating to such claim including the right to contest such claim in the name of National Grid. National Grid shall supply the FFR Provider with all information, assistance and particulars reasonably required by the FFR Provider in connection therewith. National Grid shall not accept, settle, pay or compromise any such claim without the prior written approval of the FFR Provider (not to be unreasonably withheld or delayed). The FFR Provider shall reimburse to National Grid all of its reasonable expenses incurred in connection with the provision of any such information, assistance or particulars in the contesting of any such claim.

3.11 PROVISION OF OTHER SERVICES

3.11.1 The **FFR Provider** hereby undertakes to **National Grid** that the availability and delivery of **Response** from any **Contracted FFR Unit** pursuant to and in accordance with this **Document** will not at any time during an **FFR Contracted Service Term** be impaired or otherwise prejudiced by the **FFR Provider's** performance of any agreement with a third party relating to the **Contracted FFR Unit** or any associated **Plant** and **Apparatus**, including without limitation the making available and/or delivery of services to that third party by the **FFR Provider** (whether by way of increases or reductions in **Generation** or **Demand** or stipulated running profiles or otherwise, and whether to assist in the management, operation or protection of a **User System** or pursuant to the **Capacity Market Rules** (as defined in sub-paragraph 5.17.3) or otherwise).

- 3.11.2 Notwithstanding sub-paragraph 3.11.1, in the event that the FFR Provider is unable to provide Firm Frequency Response (to any extent) in all or any part of any FFR Service Window for any reason described in sub-paragraph 3.11.1, then the FFR Provider shall give a full explanation to National Grid in its notification of inability to provide Firm Frequency Response from the Contracted FFR Unit pursuant to sub-paragraphs 3.2.83.2.83.2.4 or 3.4.53.4.53.4.4 (as applicable), and National Grid may in its absolute discretion terminate the FFR Contract in question pursuant to sub-paragraph 3.11.5 applies),
- 3.11.3 Subject always to sub-paragraph 3.11.4, and irrespective of whether or not **National Grid** elects to terminate the **FFR Contract**, the **FFR Provider** hereby agrees to reimburse to **National Grid** all and any additional costs and expenses incurred by it as a result of such inability including **National Grid**'s additional costs of alternative or replacement service provision.
- 3.11.4 The amount or amounts for which the **FFR Provider** may be liable to reimburse **National Grid** pursuant to sub-paragraph <u>3.3.13.13.23.13.3</u> in respect of any single **FFR Contract** shall not exceed in aggregate the greater of (1) £250,000, and (2) an amount equal to the aggregate **Availability Payments** calculated by reference to all **FFR Service Windows** in the **FFR Contracted Service Term** (ignoring any periods of unavailability and whether or not declared by the **FFR Provider**).
- 3.11.5 Where, during any one or more Settlement Periods in an FFR Service Window, an FFR Provider is required under the terms of any agreement with National Grid to provide from a Contracted FFR Unit any other Balancing Service (except with respect to Reactive Power) the Parties agree and acknowledge that Firm Frequency Response cannot be provided simultaneously with such other Balancing Service and to the extent that such service provision either overlaps to any extent with a FFR Service Window and/or is otherwise inconsistent or in conflict with the delivery of Firm Frequency Response, then the Contracted FFR Unit shall be deemed unavailable for the purposes of sub-paragraph 3.5.4.

3.12 COMMUNICATIONS

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- 3.12.1 Any communications required by this Section 3 to be given in writing shall be made and deemed to have been received in accordance with paragraph 5.8 save as may be otherwise agreed by the **Parties**.
- 3.12.2 Each of the **Parties** hereby agrees and acknowledges that any reference to a communication by telephone, e-mail or facsimile given by **National Grid** to the **FFR Provider** or vice versa in this Section 3 and the **FFR Service Procedure** shall, where appropriate, be deemed to include a communication given by means of **EDL** or (subject to sub-paragraph 3.12.3 below) an **Automatic Logging Device**.
- 3.12.3 Communications by Automatic Logging Device may take place only from a date five Business Days following notification to the FFR Provider by National Grid to this effect.
- 3.12.4 Instructions and confirmations stored on **EDL** or an **Automatic Logging Device** shall (except during **Periods** when **EDL** or an **Automatic Logging Device** is unavailable for whatever reason in which case communication by telephone, e-mail or facsimile (whichever is appropriate) shall resume with immediate effect) be conclusive evidence of the giving and/or receipt of any communication required to be given pursuant to the terms of this Section 3.
- 3.12.5 The **Parties** consent to the recording of all telephone conversations between them relating in whole or in part to this **Document**, and each **Party** agrees to notify its employees of that consent and obtain their consent to that recording if required by law.

3.13 MONITORING AND TESTING

Monitoring

3.13.1 **National Grid** reserves the right to assess the delivery of **Response** by the **Contracted FFR Unit** in accordance with the methodologyies set out below.

3.13.2 Where the FFR Contract comprises dynamic Firm Frequency Response:

- (a) the volume of **Response** actually delivered from the **Contracted FFR Unit** during the **Sample Period** shall be ascertained as follows:-
 - by reference to an operating profile of a sample of Frequency Sensitive Load Devices ("the Monitored Frequency Sensitive Load Sample");
 - (ii) Response volumes attributable to the Monitored Frequency Sensitive Load Sample shall be calculated as the difference between (1) power consumption at the start of the Sample Period, and (2) power consumption at the relevant time; and
 - (iii) power consumption values shall be taken from the Frequency Sensitive Load Specification attributed to those Frequency Sensitive Load Devices operating during the Sample Period as indicated by Agreed Operational Monitoring Equipment connected to each of such Frequency Sensitive Load Devices;
- (b) the volume of **Response** required to be delivered from the **Contracted FFR Unit** during the **Sample Period** shall be ascertained by reference to an operating profile for the **Monitored Frequency Sensitive Load Sample** derived by linear interpolation from the applicable **FFR Capability Data Tables** (as such tables are to be interpreted in accordance with paragraph 6.2), and that operating profile shall be used to determine second by second spot values of **Response** required to be delivered;
- (c) National Grid shall derive a percentage performance measure (PPM), where:-

PPM = A/B * 100

and where:-

A is the aggregate of each second by second spot value of **Response** assumed to be delivered by the **Monitored Frequency Sensitive Load Population** over the **Sample Period** as determined pursuant to sub-paragraph 3.3.13.3.13.13.2(a), and

B is the aggregate of each second by second spot value of **Response** required to be delivered by the **Monitored Frequency Sensitive Load Population** over the **Sample Period** as determined pursuant to sub-paragraph 3.3.13.3.13.13.2(b);

(d) the percentage performance derived pursuant to this sub-paragraph <u>3.3.13.3.13.13.2</u>, shall be used (in accordance with (e) below) to derive a factor ("the **Performance Factor**"), which shall be used for the calendar month or months in which the **Sample Period** falls to calculate the deduction in payments otherwise falling due to the **FFR Provider** pursuant to paragraph 3.5 as referred to in sub-paragraph <u>3.5.33.5.3</u>3.5.4;

(e)	
(0)	

the Performance Factor shall be derived as follows:-

Percentage Performance	Performance Factor
<10%	100%
>10%, <60%	50%
>60%<95%	25%
>95%	0%

(f)

for the purposes of this sub-paragraph <u>3.3.13.3.13.13.2</u>, "**Sample Period**" shall mean any period of 30 minutes commencing upon excursion of **System Frequency** to either above or below 50Hz at a time when **National Grid** has instructed (or is deemed to have instructed)

the **FFR Provider** to operate the **Contracted FFR Unit** in a **Firm Frequency Sensitive Mode** as more particularly specified in paragraph 3.3.

- 3.13.3 <u>NOT USED</u> Where the FFR Contract comprises static Firm Frequency Response:
- 3.13.4 the **Demand** or **Generation** profile of the **Contracted FFR Unit** from time to time shall be ascertained by reference to a combination of second by second output data;
- 3.13.5 where the **Contracted FFR Unit** provides low **Frequency Response** by automatic reduction of **Demand**, then **National Grid** shall, using its analysis software, derive a percentage performance measure for the **Contracted FFR Unit** for the **FFR Service Window** in question, based on the difference between (1) the **Automatic Response Energy Deliverable** by 30 seconds and (2) the lowest point in the **Demand** profile ascertained pursuant to sub-paragraph 3.13.3(a) (or, in the case of an applicable **Part Load Point** to which **Demand** is reduced, the difference between such lowest point in the **Demand** profile and such **Part Load Point**);
- 3.13.6 where the **Contracted FFR Unit** provides low **Frequency Response** by automatic increase of **Generation**, then **National Grid** shall, using its analysis software, derive a percentage performance measure (PPM) for the **Contracted FFR Unit** for the **FFR Service Window** in question, based on the difference between (1) the **Automatic Response Energy Deliverable** by 30 seconds and (2) the difference between the highest point in the **Generation** profile ascertained pursuant to sub-paragraph 3.13.2(a) and the **Maximum Available Output**;
- 3.13.7 where the **Contracted FFR Unit** provides **High Frequency Response** by automatic increase of **Demand**, then **National Grid** shall, using its analysis software, derive a percentage performance measure for the **Contracted FFR Unit** for the **FFR Service Window** in question, based on the difference between (1) the **Automatic Response Energy Deliverable** by 30 seconds and (2) the difference between the highest point in the **Demand** profile ascertained pursuant to sub-paragraph 3.13.3(a) and the **Maximum Available Demand**; and
- 3.13.8<u>3.13.2</u> where the Contracted FFR Unit provides High Frequency Response by automatic reduction of Generation, then National Grid shall, using its analysis software, derive a percentage performance measure for the Contracted FFR Unit for the FFR Service Window in question, based on the difference between (1) the Automatic Response Energy Deliverable by 30 seconds and (2) the lowest point in the Generation profile ascertained pursuant to sub-paragraph 3.13.3(a) (or, in the case of an applicable Part Load Point to which Generation is reduced, the difference between such lowest point in the Demand profile and such Part Load Point).
- 3.13.93.13.3 NOT USED Where the FFR Contract comprises static Firm Frequency Response, National Grid also reserves the right to assess the delivery of Automatic Response from a Contracted FFR Unit in respect of any period during which the Relay is armed by the FFR Provider in accordance with paragraph 3.4 and at any time during that period the System Frequency transgresses the Frequency Trigger in this sub paragraph 3.13.4 "a Relevant Frequency Incident", in accordance with the following methodology:-

the level of **Demand** or **Generation** (as the case may be) immediately prior to, and for the remainder of the **FFR Service Window** after, the **Relevant Frequency Incident** shall be derived from second by second output data ascertained pursuant to sub-paragraph 3.13.3(a), in order to ascertain the **Automatic Response** delivered and sustained;

using its analysis software **National Grid** shall derive a percentage performance measure (PPM), where:

<u>PPM = C/D * 100</u>

and where:

C is the difference between the level of **Demand** or **Generation** (as the case may be) immediately prior to the **Relevant Frequency Incident** and a level being (i) in the case of low **Frequency Response**, the lowest level of **Generation** or the highest level of **Demand** (as the

case may be) or (ii) in the case of **High Frequency Response**, the highest level of **Generation** or the lowest level of **Demand** (as the case may be), in each case during the period over which **Automatic Response** is required pursuant to sub paragraph 3.4.3 (a) to be sustained and derived from the operating profile ascertained pursuant to sub-paragraph 3.13.3(a), and

D is the Automatic Response Energy Deliverable.

The percentage performance measure (PPM) derived pursuant to sub paragraphs 3.13.3 and 3.13.4(or, where both measures are derived in respect of the same period, the lowest) shall be used to derive a deduction in the **Availability Fee** attributable to the duration of the relevant **FFR Service Window**(s), using the following table:

- Percentage Performance Measure	% by which Availability Fee is reduced
<10%	100%
≥10%, <60%	50%
≥60%, <95%	25%
≥ 95%	0%

3.13.103.13.4 The **FFR Provider** shall provide to **National Grid** all information and reasonable assistance necessary for **National Grid** to derive output data for the purposes of this sub-paragraph 3.13, and shall allow **National Grid**, its employees, agents, suppliers, contractors and sub-contractors necessary access to the **Contracted FFR Unit(s)** and such other parts of the **Premises** in connection therewith. Without limitation the **FFR Provider** hereby grants to **National Grid** the right to collect and record data from any **On-Site Monitoring Equipment**.

Testing

- 3.13.113.13.5 Without prejudice to sub-paragraph 2.2.3 and the preceding provisions of this paragraph 3.13, if at any time during an **FFR Contracted Service Term National Grid** has reasonable grounds for believing that a **Contracted FFR Unit** does not have the capability to provide **Firm Frequency Response** in accordance with this **Document**, then **National Grid** shall so notify the **FFR Provider** in writing together with its reason therefor, and **Firm Frequency Response** shall thenceforth be deemed to be unavailable from such **Contracted FFR Unit** for the purposes of sub-paragraph 3.5.4 until such time as it is demonstrated to **National Grid**'s reasonable satisfaction that capability of the **Contracted FFR Unit** to provide **Firm Frequency Response** is restored, which may be by **Reproving Test** in accordance with Section 4.
- 3.13.123.13.6 If, pursuant to sub-paragraph 3.13.53.13.53.13.7, a **Contracted FFR Unit** remains unavailable to provide **Firm Frequency Response** for more than two consecutive calendar months, then **National Grid** may in its absolute discretion terminate the **FFR Contract** in question pursuant to sub-paragraph 3.14.2.
- 3.13.133.13.7 Where National Grid has notified the FFR Provider pursuant to sub-paragraph 3.13.53.13.53.13.7 and the FFR Provider can provide sufficient written evidence to satisfy National Grid that the Contracted FFR Unit was available to provide Firm Frequency Response in accordance with this Document, then the FFR Provider may request in writing that National Grid consents to an extension of the time period set out in sub-paragraph 3.13.53.13.53.13.7 (such consent not to be unreasonably withheld or delayed).
- 3.13.143.13.8 For the purposes of sub-paragraph 3.13.53.13.53.13.7, National Grid shall have no reasonable grounds for believing that the Contracted FFR Unit does not have the capability to

provide **Firm Frequency Response** in accordance with this **Document** if, in the **FFR Service Window** in question, **Frequency Response** is delivered by the **Contracted FFR Unit** at not less than 90% of the required amount for at least 95% of the duration of such **FFR Service Window**.

3.13.153.13.9 The FFR Provider shall maintain accurate and up to date records relevant to the provision of Firm Frequency Response from the Contracted FFR Unit pursuant to this Document, and shall permit National Grid or its authorised personnel and/or agents access on reasonable notice at all reasonable times to such records (including the making of copies and retention of such records) for the purposes of demonstrating to National Grid's reasonable satisfaction that the FFR Provider has complied with its obligations hereunder and under the Framework Agreement.

3.14 TERMINATION OF FFR CONTRACTS

- 3.14.1 All **FFR Contracts** with respect to any **Contracted FFR Unit** shall automatically terminate upon and with effect from termination (for whatever reason) of the **Framework Agreement** with respect to that **Contracted FFR Unit** whether in accordance with paragraph 5.4 or otherwise.
- 3.14.2 Without prejudice to sub-paragraphs 3.14.1 and 3.14.3 and paragraph 5.4, **National Grid** may in its absolute discretion terminate an **FFR Contract** in respect of the **Contracted FFR Unit** in question forthwith by notice in writing to the **FFR Provider** in the following circumstances:-
 - (a) where the **Contracted FFR Unit** has not successfully passed an **FFR Pre-Qualification Assessment** prior to commencement of the calendar month immediately preceding commencement of the **Service Term**;
 - (b) where the FFR Provider persistently fails to make available and/or provide Firm Frequency Response from any Contracted FFR Unit (including any Substitute FFR Unit in respect of periods when that Contracted FFR Unit is a Retired FFR Unit) and such failure amounts to an intentional or reckless breach or disregard by the FFR Provider of its obligations under this Section 3 and the Framework Agreement; or
 - (c) in the circumstances set out in sub-paragraphs 3.11.33.11.33.11.2 and 3.13.63.13.63.13.8.
- 3.14.3 Where in respect of any **FFR Contract** the number of **Events of Default** to which this subparagraph 3.14.3 is expressed in the applicable table in paragraph 3.6 to apply (Availability) exceeds three in any calendar month, then **National Grid** shall be entitled (at its sole discretion, but subject always to sub-paragraph 3.14.4) to terminate that **FFR Contract** forthwith by notice in writing to the **FFR Provider**.
- 3.14.4 Before deciding (in its sole discretion) whether to exercise its rights to terminate any **FFR Contract** pursuant to sub-paragraph 3.14.3, **National Grid** shall use reasonable endeavours to discuss with the **FFR Provider** the circumstances giving rise to the relevant **Events of Default** (any such discussion to be confirmed in writing by **National Grid**).
- 3.14.5 For the avoidance of doubt, **National Grid**'s rights pursuant to sub-paragraph 3.14.3 shall arise upon the occurrence of the third and each successive **Event of Default** thereafter.
- 3.14.6 Upon each **Event of Default** to which this sub-paragraph 3.14.6 is expressed in the applicable table in paragraph 3.6 to apply (Failure to apply for sufficient **TEC/STTEC/LDTEC**), **National Grid** shall be entitled (at its sole discretion) to terminate the **FFR Contract** in respect of the **Contracted FFR Unit** in question forthwith by notice in writing to the **FFR Provider**.
- 3.14.7 Upon each **Event of Default** to which this sub-paragraph 3.14.7 is expressed in the applicable table in paragraph 3.6 to apply (Notifications of Unavailability and Confirmations of Availability), **National Grid** shall be entitled (at its sole discretion) to terminate the **FFR Contract** in respect of the **Contracted FFR Unit** in question forthwith by notice in writing to the **FFR Provider**.
- 3.14.8 Upon each **Event of Default** to which this sub-paragraph 3.14.8 is expressed in the applicable table in paragraph 3.6 to apply (Breach of Undertaking), **National Grid** shall be entitled (at its

sole discretion) to terminate the **FFR Contract** in respect of the **Contracted FFR Unit** in question forthwith by notice in writing to the **FFR Provider**.

3.14.9 Termination of any **FFR Contract** shall not affect any accrued rights or liability of either **Party** or the coming into effect or continuance of any provision thereof which is expressly or by implication intended to come into force or effect after such termination.

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3.14.10 For the purposes of this paragraph 3.14 and the applicable table in paragraph 3.6, where the **FFR Provider** is subject to an **FFR Contract** in respect of **Additional Response**, then an **Event of Default**, and the corresponding consequences in respect of such **Event of Default**, shall apply to both the **FFR Contract** in respect of the **Initial Response** and the **FFR Contract** in respect of the **Additional Response**.

SECTION 4 FFR ASSESSMENTS AND TESTING

4.1 INTRODUCTION

- 4.1.1 This Section 4 sets out the provisions with respect to **FFR Pre-Qualification Assessments** and **Reproving Tests** (referred to in this Section 4 as "**FFR Assessments and Testing**").
- 4.1.2 Paragraph 4.2 describes **FFR Pre-Qualification Assessments** which **National Grid** may require to be carried out by the **FFR Provider** in respect of an **FFR Unit** pursuant to sub-paragraph 2.2.3 to verify compliance by that **FFR Unit** with sub-paragraph 2.2.2.
- 4.1.3 Paragraph 4.3 describes the **Reproving Tests** which the **FFR Provider** may carry out in order to demonstrate to **National Grid**'s reasonable satisfaction that a **Contracted FFR Unit** has the ability to provide **Firm Frequency Response** in accordance with this **Document**.

4.2 FFR PRE-QUALIFICATION ASSESSMENT

Dynamic Firm Frequency Response

- 4.2.1 The **FFR Pre-Qualification Assessment** with respect to dynamic **Firm Frequency Response** to be provided under Section 3 shall be conducted on the basis set out either (as applicable) in **National Grid's** publication (as revised or reissued from time to time) entitled:
 - (a) "Guidance Notes Synchronous Generating Units", and shall take the form of any one or more (as determined by National Grid at its sole discretion) of the Response tests set out therein; or
 - (b) "Technical Guidance and Testing Procedure for Static and Dynamic Demand Response and Battery Storage Providers of Frequency Balancing Services"¹.

Static Firm Frequency Response

- 4.2.2 <u>NOT USED</u> The **FFR Pre-Qualification** Assessment with respect to static **Firm Frequency Response** to be provided under Section 3 shall either (as applicable):
 - (a) be conducted on the basis set out in National Grid's publication entitled "Technical Guidance and Testing Procedure for Static and Dynamic Demand Response and Battery Storage Providers of Frequency Balancing Services" (as revised or reissued from time to time); or
 - (b) otherwise comprise a detailed test programme to be agreed between the **Parties** (not to be unreasonably withheld or delayed), and shall meet the following objectives:-

to check that the steady state, calibration accuracy of the Relay is within tolerances; and

to test whether the transient performance of the **Relay** is within tolerances; and if required, to adjust and re check.

The test should demonstrate that results are unaffected by reasonable supply voltages variations; and consistent **Relay** operation under various **Frequency** disturbance conditions.

By way of illustration, a detailed test programme may comprise the following procedures:

¹ <u>http://www2.nationalgrid.com/uk/services/balancing-services/service-guides/</u>

(i) Scope

The scope is to calibrate the low **Frequency Relays** by injecting downstream of the instrument VTs.

(ii) Responsibilities

The **FFR Provider** is responsible for providing and setting up the appropriate **Frequency** injection and recording equipment and conducting the test in accordance with the agreed test procedure.

National Grid is responsible for witnessing the test if it so requires, and the test result obtained will be made available to **National Grid** for analysis purposes.

(iii) Required Documentation/Information

Relay specification.

Injection end Frequency Meter specification and calibration certificate.

Injection end Voltage Meter specification and calibration certificate.

Recording/monitoring equipment specification (if used).

(iv) Test Configuration

If done with the low **Frequency Relay** installed on **Site** the circuit breakers are to be isolated such that the operation of the primary trip **Relays** do not cause the **Site**(s) to actually trip (except test 4).

If the low **Frequency Relay** calibration is carried out away from the **Site** installation the **Relays** should be installed before test 4 is carried out.

The input to the trip **Relays** and any monitoring units are to be isolated from their respective VTs and wired together to the output of the injection equipment.

All tests are to be carried out at nominal input voltage unless stated otherwise. The low **Frequency Relay** should be configured with a **Frequency** measurement time stetting of 10 **Periods**.

The test will be repeated for each low Frequency Relay at the Premises.

Procedures

(V)

Company	
Site Name	
Location on Site	
Relay Serial No.	

(1) Course Steady State Trip Relay Functioning

Set the first protection stage of the low **Frequency Relay** to 49.65Hz and disarm the other three stages*. Adjust the injected **Frequency** in steps of 0.5Hz from 47.00Hz to 52.00Hz first in ascending, then descending order. Record the actual source **Frequency** (Fs) and the trip **Relay** position. Repeat all tests for the remaining three stages.

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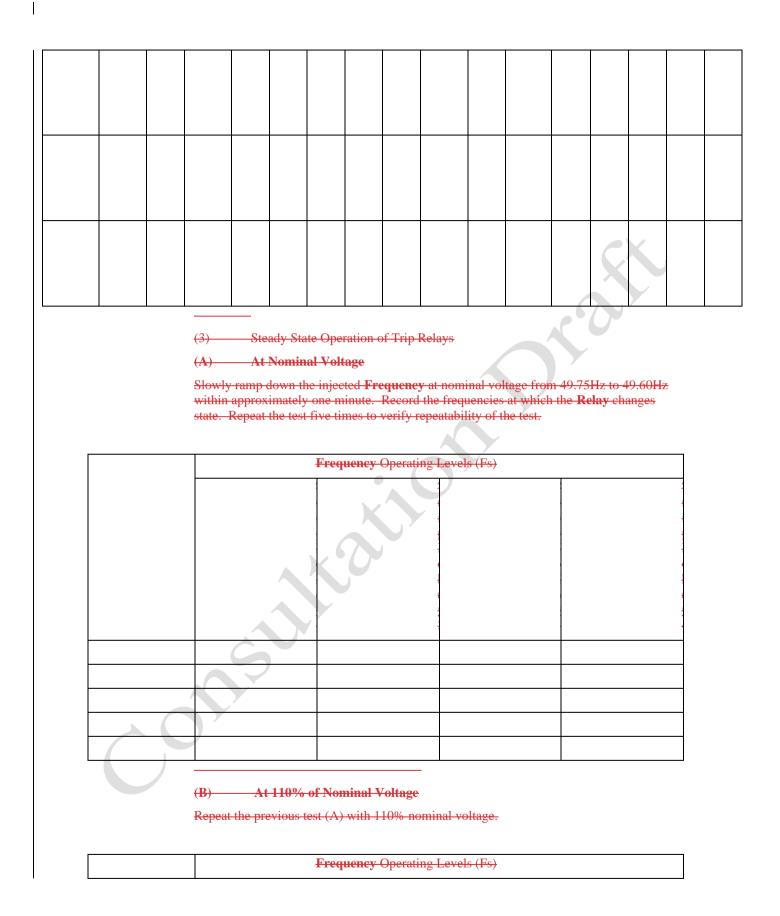
27

*If the low Frequency Relay is being used only two stages will need to be tested.

(2) Fine Steady State Trip Relay Functioning

Adjust the injected **Frequency** in steps of 0.05Hz to 50Hz in ascending, then descending order. Record the actual source **Frequency** and the trip **Relay** position.

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(C) At 90% of Nominal Voltage

Repeat the previous test (A) with 90% nominal voltage.

Frequency Operating Levels (Fs)				
	7			

Note: Reset voltage back to nominal voltage before proceeding with tests.

(4) Time Delay Checks

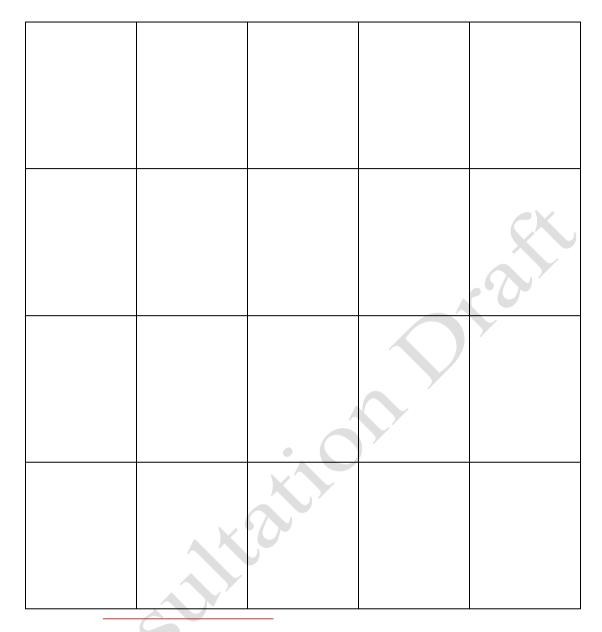
Step the injected **Frequency** from 49.85Hz to 49.50Hz. Record the times that each low **Frequency Relay** takes to change state. Repeat the test three times to verify repeatability of results. On fourth test the circuit breaker should be connected. (Ensure a technical representative from the **Site** is present during this test).

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				XV	
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(5) Trip Relay Transient Test

For each test, start with the **Frequency** at 50Hz and rapidly ramp it down within 5 to 15 seconds to the new **Target Frequency** without any undershoot in the injected **Frequency**. Record the **Relay** position after each test.

	• 1	Final State of Play		
	5			



Monitoring and Metering

4.2.3 Monitoring and metering with respect to an **FFR Unit** shall be sufficient for the purposes of paragraph 3.13, and shall monitor and meter the **FFR Unit** individually without reference to any other **Plant** and **Apparatus** not forming part of the **FFR Unit**.

4.3 REPROVING TEST

4.3.1

- **Reproving Tests** shall be designed to demonstrate the capability of the **Contracted FFR Unit** to deliver dynamic or static (as the case may be) Response in accordance with an FFR **Contract. Reproving Tests** shall be conducted either (as applicable):
 - (a) on the basis set out in **National Grid's** publication entitled "Technical Guidance and Testing Procedure for Static and Dynamic Demand Response and Battery Storage Providers of Frequency Balancing Services" (as may be revised or reissued from time to time); or
 - (b) otherwise on the basis of a detailed test programme which shall be notified by the **FFR Provider** to **National Grid** and shall be subject to **National Grid**'s prior agreement in writing (not to be unreasonably withheld or delayed), but will entail the **Contracted FFR Unit** operating according to normal operating procedures.

For the purpose of testing, signal inputs will be simulated to model actual **Frequency** changes as closely as possible.

- 4.3.2 It is intended that **Reproving Tests** will be carried out on the date(s) and during the period(s) notified by the **FFR Provider** to **National Grid** but shall be subject to **National Grid**'s prior agreement in writing (not to be unreasonably withheld or delayed).
- 4.3.3 The requirements with respect to monitoring equipment facilities and data for the purpose of **Reproving Tests** are to be agreed between **National Grid** and the **FFR Provider** in writing prior to the commencement of any **Reproving Test**, such agreement not to be unreasonably withheld or delayed.
- 4.3.4 Communications between the **FFR Provider** and **National Grid** in the course of the conduct of a **Reproving Test** shall comply with paragraph 3.12.

4.4 GENERAL

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- 4.4.1 **National Grid** shall appoint suitably qualified representatives to witness **FFR Assessments and Testing**, and the **FFR Provider** shall afford **National Grid**'s representatives with access to all information and data relevant to the **FFR Assessments and Testing** together with such access to the relevant **Tendered FFR Unit(s)** and/or **Contracted FFR Unit(s)** as is reasonably required by them to witness the **FFR Assessments and Testing**.
- 4.4.2 **National Grid** shall use all reasonable endeavours to ensure that, whilst they are at the **FFR Provider**'s **Premises** for such purpose, its representatives shall comply with all rules and procedures in relation to health, safety and working standard at such **Premises** (insofar as the same have been made known by the **FFR Provider** to **National Grid** and to such representatives in advance) and to use all reasonable endeavours to ensure that such persons are provided with all protection and safety clothing, tools and equipment reasonably necessary for their protection.
- 4.4.3 The **FFR Provider** shall be responsible for ensuring that all **FFR Assessments and Testing** is carried out without hazard to any person or to the **Tendered FFR Unit(s)** and/or **Contracted FFR Unit(s)** or to any other equipment at the **FFR Provider**'s **Premises**, and accordingly the **FFR Provider** shall be responsible for its own loss whether direct (such as damage to the **Tendered FFR Unit(s)** and/or **Contracted FFR Unit)** or indirect (such as loss of revenue or increased cost of working) as well as any liability to any third party for death, personal injury or loss or damage to property where such loss or liability arises in connection with the **FFR Assessments and Testing**.
- 4.4.4 The **FFR Provider** may change or stop any **FFR Assessments and Testing** if at any time its appointed **Site** representative reasonably believes that there is a significant possibility of damage to **Plant** or injury to persons resulting from that **FFR Assessments and Testing**.
- 4.4.5 Information acquired by **National Grid** in connection with the **FFR Assessments and Testing** may only be used by **National Grid**'s personnel to the extent that use of such information is required to enable such persons to carry out their properly authorised duties. Such information shall not be disclosed by **National Grid** to any third party save in the course of any judicial or arbitral process or where it is required, or expressly permitted, to disclose such data pursuant to the terms of its Licence, the **Balancing and Settlement Code**, the **Grid Code** or any other **Legal Requirement**. Subject thereto **National Grid** shall procure that its relevant personnel are contractually bound not to disclose such information to any third party save as permitted above or to employees of **National Grid** whose province it is to know the same.

SECTION 5 GENERAL PROVISIONS

5.1 CHANGES TO THIS DOCUMENT

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Outline Change Proposal

- 5.1.1 This **Document** shall be reviewed by **National Grid** from time to time, and (without prejudice to sub-paragraph 5.1.22) where at any time **National Grid** wishes to propose one or more amendments to this **Document** then it may at its sole discretion do so by formulating an **Outline Change Proposal**. Each **Outline Change Proposal** shall describe in reasonable but not excessive detail all such amendments and shall specify a single **Proposed Implementation Date**, save that insofar as any such amendments are required as a result of a **Proposed Legal Requirement** or a **Change in Law** then each of such amendments shall be the subject of a separate **Outline Change Proposal**.
- 5.1.2 The contents of an **Outline Change Proposal** shall include without limitation:-
 - (a) the rationale for the amendment(s), including whether or not required as a result of a **Proposed Legal Requirement** or a **Change in Law**;
 - (b) if applicable, details of the **Proposed Legal Requirement** or **Change in Law**; and
 - (c) the **Proposed Implementation Date**.
 - 5.1.3 Each **Outline Change Proposal** shall be notified by **National Grid** to all **FFR Providers** in writing.

Comments from FFR Providers

5.1.4 National Grid shall give all FFR Providers a reasonable opportunity and, in any event, not less than 20 Business Days, to review and provide National Grid with written comments on each Outline Change Proposal. National Grid shall consider in good faith any written comments submitted by the FFR Provider pursuant to this sub-paragraph 5.1.4 and shall, insofar as is reasonably practicable, address such comments in any subsequent Detailed Change Proposal.

Withdrawal, Modification and Implementation of Outline Change Proposals

- 5.1.5 Not earlier than the date for receipt of comments from **FFR Providers** specified in subparagraph 5.1.4, **National Grid** may, at its sole discretion and having regard to written comments submitted by **FFR Providers**, notify **FFR Providers** in writing of its decision either to:-
 - (a) withdraw the **Outline Change Proposal**, which shall be effective upon written notice of the same to all **FFR Providers**; or
 - modify the **Outline Change Proposal**, whereupon sub-paragraphs 5.1.2 to 5.1.4 inclusive, and this sub-paragraph 5.1.5, shall apply mutatis mutandis to such modified **Outline Change Proposal**; or
 - (c) implement the **Outline Change Proposal** (including any modification thereto pursuant to sub-paragraph (b) above), whereupon the provisions of sub-paragraph 5.1.6 shall apply,

provided always that where **National Grid** fails to take any of the steps outlined above by the date which is 40 **Business Days** after the date of notification of the **Outline Change Proposal** then the same shall be deemed to have been withdrawn with immediate effect.

Detailed Change Proposals

(b)

5.1.6 If National Grid decides to implement an Outline Change Proposal (including any modification thereto pursuant to sub-paragraph 5.1.5(b)), then it shall formulate a Detailed Change Proposal. Each Detailed Change Proposal shall specify a Final Implementation

Date and shall be accompanied by a copy of this **Document** with the amendments specified in the **Detailed Change Proposal** incorporated.

- 5.1.7 Each **Detailed Change Proposal** shall be notified by **National Grid** to all **FFR Providers** in writing as soon as reasonably practicable and in any event within 20 **Business Days** of notification by **National Grid** pursuant to sub-paragraph 5.1.5(c) of implementation of the **Outline Change Proposal**.
- 5.1.8 Amendments to this **Document** set out in a **Detailed Change Proposal** notified by **National Grid** to **FFR Providers** pursuant to sub-paragraph 5.1.7 shall become effective from the **Final Implementation Date**, whereupon this **Document** as so amended shall automatically be incorporated into each **Framework Agreement** in accordance with (and subject to) subparagraph 1.1.3 so as to apply (as may be amended in the future pursuant to this paragraph 5.1) to all subsequent **FFR Tenders** and to all **FFR Contracts** then subsisting, subject always to:-
 - (a) all and any accrued rights and liabilities of **National Grid** and **FFR Providers** hereunder and all and any rights and remedies they may have, in each case with respect to **Periods** prior to the **Proposed Implementation Date**; and
 - (b) sub-paragraphs 5.1.13, 5.1.15 and 5.1.21.
- 5.1.9 On each occasion that this **Document** is amended in accordance with the foregoing provisions, **National Grid** shall on or before the **Final Implementation Date** publish this **Document** as so amended on the **Industry Information Website** and shall identify the same by issue number and date of publication.

Affected FFR Providers

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- 5.1.10 With respect to a **Detailed Change Proposal**, each and any **Affected FFR Provider** may, no later than 15 **Business Days** after notification by **National Grid** of that **Detailed Change Proposal**, elect by notice in writing to **National Grid**, and subject always to sub-paragraph 5.1.11, to either:-
 - (a) reject the application of such amendments to each of such Affected FFR Contracts provided that such rejection is accompanied by a statement of the reason why, in the reasonable opinion of the Affected FFR Provider, such rejection is being made; or
 - (b) where the **Affected FFR Provider** is of the reasonable opinion that the net cost to it of providing **Firm Frequency Response** and/or complying with such **Affected FFR Contract(s)** has increased as a result of such amendments, seek an increase to any or all of the **Contract Prices** in respect of each of such **Affected FFR Contracts**.
- 5.1.11 With respect to any **Detailed Change Proposal** required as a result of a **Proposed Legal Requirement** or a **Change in Law**, the **Affected FFR Provider** may not make an election pursuant to sub-paragraph 5.1.10(a), and furthermore may only make an election pursuant to sub-paragraph 5.1.10(b) if the amendments are required as a result of a **Qualifying Change in Law**, provided always that where the **Affected FFR Provider** disputes that such amendments are required as a result of a **Proposed Legal Requirement** or a **Change in Law** (including a **Qualifying Change in Law**) then it may, within the period of 15 **Business Days** specified in sub-paragraph 5.1.10, refer the matter to **Expert Determination**.
- 5.1.12 Each notice of election by an **Affected FFR Provider** pursuant to sub-paragraph 5.1.10(a) or (b) shall be accompanied by a full and detailed justification.

Rejection of Certain Detailed Change Proposals to Subsisting FFR Contracts

5.1.13 Within 20 Business Days of receipt by National Grid of the Affected FFR Provider's notice pursuant to sub-paragraph 5.1.10(a) of its election to reject the application of amendments to this Document to the Affected FFR Contract(s), National Grid and the Affected FFR Provider shall negotiate in good faith amendments to the Framework Agreement by way of Special Condition(s) in order to negate the impact of the amendments set out in the Detailed Change

Proposal with respect to each **Affected FFR Contract(s)**, such that the **Affected FFR Provider** is in no better and no worse position after the coming into effect of the **Detailed Change Proposal** than it would have been in had such **Detailed Change Proposal** not come into effect.

- 5.1.14 If by the expiry of such period of 20 **Business Days National Grid** and the **Affected FFR Provider** have been unable to reach agreement as to the amendments to the **Framework Agreement** contemplated in sub-paragraph 5.1.13, then either of them may, with the written consent of the other, refer the matter or matters in dispute to **Expert Determination**.
- 5.1.15 Until such time as such amendments to the **Framework Agreement** are agreed or determined (as the case may be), and notwithstanding sub-paragraph 5.1.8, unless otherwise agreed between **National Grid** and the **Affected FFR Provider**, this **Document** (as may subsequently be amended from time to time) shall be deemed incorporated into the **Affected FFR Provider**'s **Framework Agreement** but on the basis that the amendments set out in the relevant **Detailed Change Proposal** shall not apply to the **Affected FFR Contract(s)**.

Increase in Contract Prices

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- 5.1.16 Within 20 Business Days of receipt by National Grid of the Affected FFR Provider's notice pursuant to sub-paragraph 5.1.10(b) of its intention to seek an increase to Contract Prices, National Grid and the Affected FFR Provider shall negotiate in good faith an increase to the Contract Prices (or any them) in respect of each Affected FFR Contract so as to reflect any increase in net cost demonstrated by the Affected FFR Provider to National Grid's reasonable satisfaction and taking into account sub-paragraphs 5.1.17 and 5.1.18 (and for such purpose the Affected FFR Provider shall provide to National Grid all such evidence as it may reasonably require).
- 5.1.17 The **Affected FFR Provider** shall take all reasonable steps to minimise any such increase in net costs arising from such **Detailed Change Proposal**.
- 5.1.18 The **Contract Prices** or any of them as agreed or determined to be increased pursuant to subparagraphs 5.1.16 and 5.1.19 (as the case may be) shall only be effective from the **Final Implementation Date** of the **Detailed Change Proposal**.
- 5.1.19 If by the expiry of the period of 20 **Business Days** referred to in sub-paragraph 5.1.16 **National Grid** and the **Affected FFR Provider** have been unable to agree an increase to the **Contract Prices** contemplated by sub-paragraph 5.1.16, then the **Affected FFR Provider** may either:
 - (a) may following not less than 5 **Business Days**' notice in writing to the other, refer the matter or matters in dispute to **Expert Determination**; or
 - (b) where such **Detailed Change Proposal** is not required as a result of a **Qualifying Change in Law**, reject the application of such amendments to this **Document** to the **Affected FFR Contract(s)** by written notice to **National Grid** whereupon the provisions of sub-paragraphs 5.1.13, 5.1.14 and 5.1.15 shall apply mutatis mutandis.
- 5.1.20 **National Grid** may at its sole discretion modify a **Detailed Change Proposal** that is required as a result of a **Proposed Legal Requirement** at any time prior to the coming into effect of the **Change in Law**, provided that:-
 - (a) such **Detailed Change Proposal** shall only be amended to the extent that and insofar as is necessary to give effect to any change to the **Proposed Legal Requirement** which comes to **National Grid**'s attention; and
 - (b) insofar as the Affected FFR Provider notified National Grid pursuant to subparagraph 5.1.10(b) of its election to seek an increase to the Contract Prices, the Affected FFR Provider shall have a further opportunity to do so to take account of any further increase in its net costs referred to therein resulting from the modification to the Detailed Change Proposal, provided always that such notice is received by National Grid no later than 5 Business Days after notification by National Grid of the modified Detailed Change Proposal.

- 5.1.21 Without prejudice to any provision of this paragraph 5, **National Grid** may, at its sole discretion and at any time prior to the latter of (i) the relevant **Final Implementation Date** or, (ii) where sub-paragraphs 5.1.11, 5.1.14 or 5.1.19 apply, the date being 5 **Business Days** after the date of the **Expert**'s written decision, withdraw a **Detailed Change Proposal** by notice in writing to the **FFR Provider**, whereupon the same shall be of no effect and:-
 - (a) the **Framework Agreement** of each **Affected FFR Provider** shall be amended so as to remove any **Special Condition(s)** agreed between the **Parties** pursuant to sub-paragraph 5.1.13 in respect of such **Detailed Change Proposal**; or
 - (b) any increase in **Contract Prices** agreed or determined pursuant to sub-paragraphs 5.1.16 and 5.1.19 (as the case may be) shall be of no effect and the **Contract Prices** stated in the **Affected FFR Contracts** shall continue to apply.
- 5.1.22 Nothing in this paragraph 5 shall preclude **National Grid** and all other **Parties** at the relevant time from agreeing changes to this **Document** at any time and from time to time otherwise than in accordance with this paragraph 5.

5.2 PAYMENTS

(a)

- 5.2.1 On the eighth **Business Day** of each calendar month **National Grid** shall send to the **FFR Provider** a statement ("the **Provisional Monthly Statement**") setting out details of the following (to the extent applicable) in respect of the preceding calendar month:-
 - (a) the aggregate number of hours comprised within **FFR Service Windows**;
 - (b) the number and category of **Events of Default** described in the applicable tables in paragraph 3.6;
 - (c) any unavailability of **Firm Frequency Response** or under-delivery of **Response** identified by **National Grid** pursuant to metering and monitoring in accordance with paragraph 3.13; and
 - (d) the resulting **Availability Payment** and **Response Energy Payment** (where applicable) in respect of each of the **Initial Response** and (where applicable) the **Additional Response**.
- 5.2.2 On the eighteenth **Business Day** of each calendar month, **National Grid** shall send to the **FFR Provider** a statement ("the **Final Monthly Statement**") in respect of the previous calendar month consisting of a statement ("the **Final Statement**") incorporating:
 - in the case of an undisputed **Provisional Monthly Statement** (or where any dispute has been resolved and no changes have been effected to the calculations contained in the **Provisional Monthly Statement**) a further monthly summary of the **Firm Frequency Response** provided together with an invoice for the amount shown as being due to the **FFR Provider** or **National Grid** (as the case may be); or
 - (b) in the case of a disputed **Provisional Monthly Statement** such that changes are required as a result thereof, a revised monthly summary of the **Firm Frequency Response** provided and an invoice for the amount shown as being due to the **FFR Provider** or **National Grid** (as the case may be).
- 5.2.3 If the **FFR Provider** disagrees with any dates, times, facts or calculations set out in the **Provisional Monthly Statement**, it shall produce to **National Grid** the evidence upon which it relies in support of such disagreement. The **Parties** shall discuss and endeavour to resolve the matter prior to **National Grid** sending out the **Final Monthly Statement** but if it cannot be resolved the dates, times, facts and calculations set out in the **Provisional Monthly Statement** shall be binding upon the **Parties** until such time as they are reversed or revised by agreement between the **Parties** or by an arbitrator appointed pursuant to paragraph 5.9.

5.2.4 Where:-

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- (a) **National Grid** discovers that any previous **Provisional Monthly Statement** or **Final Monthly Statement** contains an arithmetic error or omission;
- (b) **National Grid** becomes aware of any facts (other than facts falling within subparagraph 5.2.4(a)) which show that the **FFR Provider** was not entitled to receive a payment already made; or
- (c) any change is made to a previous final run (if any) of a settlement calculation which includes a change in any of the facts or matters upon which the final settlement run was based which facts or matters formed the basis upon which any previous **Provisional Monthly Statement** or **Final Monthly Statement**, was prepared,

National Grid shall adjust the account between itself and the FFR Provider accordingly in the next Provisional Monthly Statement which it issues, setting out the reason why the adjustment has been made, and the provisions of sub-paragraph 5.2.3 shall apply mutatis mutandis to such adjustments. In the absence of fraud, National Grid may not invoke the provisions of this sub-paragraph 5.2.4 with respect to the contents of any Provisional Monthly Statement or Final Monthly Statement after the period of 12 months commencing at the start of the month of issue of such Provisional Monthly Statement, or Final Monthly Statement, after which date such Provisional Monthly Statement or Final Monthly Statement shall be final and conclusive as to the amounts payable with respect thereto.

- 5.2.5 The due date of payment for the purposes of sub-paragraph 5.2.8 in respect of any disputed amount subsequently determined or agreed to be payable to the **FFR Provider** shall be the date for payment of the relevant **Final Monthly Statement** from which the dispute arises.
- 5.2.6 National Grid shall pay to the FFR Provider the amount shown as due from National Grid in a Final Monthly Statement within three Business Days of the date on which the Final Monthly Statement is or should be received. The FFR Provider shall pay to National Grid the amount shown as due from the FFR Provider in a Final Monthly Statement within three Business Days of the date on which the Final Monthly Statement is issued.
- 5.2.7 If either **Party** ("the **Defaulting Party**") in good faith and/or with reasonable cause fails to pay under sub-paragraph 5.2.6 any amount properly due under this **Document**, such **Defaulting Party** shall pay to the other **Party** interest on such overdue amount from and including the due date of such payment to (but excluding) the date of actual payment (as well after as before judgement) at the **Base Rate** provided that should the **Defaulting Party** otherwise fail to pay any amount properly due under this **Document** on the due date then the **Defaulting Party** shall pay to the other **Party** interest on such overdue amount at the **Enhanced Rate** from the due date on which such payment was properly due to (but excluding) the date of actual payment. Interest shall accrue from day to day.
- 5.2.8 If, following a dispute or by virtue of sub-paragraphs 5.2.2, 5.2.3 or 5.2.4:
 - (a) it is determined or agreed that the **FFR Provider** was entitled to a further payment from **National Grid**; and
 - (b) such further payment is not paid by **National Grid** to the **FFR Provider** by the payment date of the settlement month that immediately follows the date of such determination or agreement,

the **FFR Provider** shall be entitled to interest at the **Base Rate** on the amount of such further payment from the due date calculated in accordance with sub-paragraph 5.2.5 until the date of actual payment.

- 5.2.9 If following a dispute or by virtue of the provisions of sub-paragraphs 5.2.3 or 5.2.4:
 - (a) it is determined or agreed that the **FFR Provider** was not entitled to any payment it has received;

(b) and such payment is not repaid by the **FFR Provider** to **National Grid** (or reclaimed by **National Grid** by virtue of payment netting) by the payment due date of the settlement month that immediately follows the date of such determination or agreement,

National Grid shall be entitled to interest at the **Base Rate** on the amount so paid from the date of payment until the date of repayment or the date when National Grid makes a payment to the **FFR Provider** which takes such payment into account.

- 5.2.10 Notwithstanding any other provision of this Document, the Parties shall not be limited in any way as to the evidence upon which they may rely in any Proceedings arising out of or in connection with payment for making available or providing Firm Frequency Response under this Document and/or any Framework Agreement, and the Parties agree that, in the event and to the extent that either Party succeeds in proving in any such Proceedings that Firm Frequency Response was or was not made available or provided, the successful Party shall (without prejudice to any liquidated damages provision of this Document) be entitled to repayment of the sums already paid or payment of sums not paid as the case may be in respect of Firm Frequency Response or its availability together with interest (if any).
- 5.2.11 Save as otherwise expressly provided in this **Document** or in any **Framework Agreement**, sums payable by one **Party** to the other pursuant to this **Document** or any **Framework Agreement** whether by way of charges, interest or otherwise, shall (except to the extent otherwise required by law) be paid in full, free and clear of and without deduction, set-off or deferment in respect of any disputes or claims whatsoever provided that either **Party** shall be entitled to set off any payment due and payable by the other **Party** under this **Document** or in any **Framework Agreement** or in any other agreement to which they are both a **Party** for the provision of **Balancing Services** against any payment it makes to that **Party**.
- 5.2.12 **National Grid** represents and warrants to the **FFR Provider** that it enters into each **Framework Agreement** as principal and not as agent for any other person.
- 5.2.13 All amounts specified in the relevant **FFR Tender** shall be exclusive of any **Value Added Tax** or other similar tax and **National Grid** shall pay to the **FFR Provider Value Added Tax** at the rate for the time being and from time to time properly chargeable in respect of the making available and/or provision of **Firm Frequency Response** under this **Document** and all **Framework Agreements**.
- 5.2.14 The **FFR Provider** hereby warrants and represents to **National Grid** that it consents to the operation of a self-billing **System** by **National Grid** with regard to the payment for **Firm Frequency Response** to be provided and made available pursuant to this **Document** and all **Framework Agreements**, and will at all times throughout the term of each **FFR Contract** maintain such consent. The **FFR Provider** hereby undertakes to do (at **National Grid**'s cost) all acts and things reasonably necessary to enable **National Grid** to comply with the regulations of HM Customs and Excise as regards such self billing.
- 5.2.15 The submission of all **Monthly Statements** and facts and other evidence in support thereof and any questions in connection therewith from **National Grid** to the **FFR Provider** and vice versa in accordance with this paragraph 5.2 must be made, in the absence of agreement to the contrary between the **Parties**, by 19.00 hours on the **Business Day** concerned.
- 5.2.16 All payments to be made by **National Grid** to the **FFR Provider** under this **Document** will be made by payment to the **FFR Provider**'s bank account details of which are notified by the **FFR Provider** from time to time in accordance with paragraph 5.8.
- 5.2.17 The provisions of this paragraph 5.2 shall survive the termination of any **FFR Contract** and/or **Framework Agreement**.

5.3 LIMITATION OF LIABILITY

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5.3.1 Subject to sub-paragraph 5.3.2 and save where any provision of this **Document** or any **Framework Agreement** provides for an indemnity or the payment of liquidated damages, the **Parties** agree and acknowledge that neither **Party** (the "**Party Liable**") nor any of its officers,

employees or agents shall be liable to the other **Party** for loss arising from any breach of this **Document** or any **Framework Agreement** other than for loss directly resulting from such breach and which at the date of the **FFR Contract** concerned was reasonably foreseeable as not unlikely to occur in the ordinary course of events from such breach in respect of:

- (a) physical damage to the property of the other **Party**, its officers, employees or agents; and/or
- (b) the liability of such other **Party** to any other person for loss in respect of physical damage to the property of any person, subject, for the avoidance of doubt, to the requirement that the amount of such liability claimed by such other **Party** should be mitigated in accordance with general law,

provided further that the liability of any **Party** in respect of all claims for such loss shall not exceed £5 million per incident or series of related incidents.

- 5.3.2 Nothing in this **Document** or in any **Framework Agreement** shall exclude or limit the liability of the **Party Liable** for death or personal injury resulting from the negligence of the **Party Liable** or any of its officers, employees or agents and the **Party Liable** shall indemnify and keep indemnified the other **Party**, its officers, employees or agents, from and against all such and any loss or liability which such other **Party** may suffer or incur by reason of any claim on account of death or personal injury resulting from the negligence of the **Party Liable** or any of its officers, employees or agents.
- 5.3.3 Subject to sub-paragraph 5.3.2, and save where any provision of this **Document** or any **Framework Agreement** provides for an indemnity or the payment of liquidated damages, neither the **Party Liable** nor any of its officers, employees or agents shall in any circumstances whatsoever be liable to the other **Party** for:-
 - (a) any loss of profit, loss of revenue, loss of use, loss of contract or loss of goodwill; or
 - (b) any indirect or consequential loss; or

- (c) loss resulting from the liability of the other **Party** to any other person howsoever and whensoever arising save as provided in sub-paragraph 5.3.1(a) and sub-paragraph 5.3.2.
- 5.3.4 Each **Party** acknowledges and agrees that the other **Party** holds the benefit of sub-paragraphs 5.3.1, 5.3.2 and 5.3.3 for itself and as trustee and agent for its officers, employees and agents.
- 5.3.5 The rights and remedies provided by this **Document** and any **Framework Agreement** to the **Parties** are exclusive and not cumulative and exclude and are in place of all substantive (but not procedural) rights or remedies express or implied and provided by common law or statute in respect of the subject matter of this **Document** and any **Framework Agreement**, including (without limitation) any rights either **Party** may possess in tort which shall include actions brought in negligence and/or nuisance. Accordingly, each of the **Parties** hereby waives to the fullest extent possible such rights and remedies provided by common law or statute and releases the other **Party**, its officers, employees and agents to the same extent from all duties, liabilities, responsibilities or obligations provided by common law or statute in respect of the matters dealt with in this **Document** and any **Framework Agreement** and undertakes not to enforce any of the same except as expressly provided herein.
- 5.3.6 For the avoidance of doubt, the **Parties** acknowledge and agree that nothing in this **Document** or in any **Framework Agreement** shall exclude or restrict or otherwise prejudice or affect any of the rights, powers, privileges, remedies, duties and obligations of the Secretary of State or the **Authority** under the **Act**, any **Licence** or otherwise howsoever.
- 5.3.7 Each of sub-paragraphs 5.3.1, 5.3.2, 5.3.3 and 5.3.4 shall:-
 - (a) be construed as a separate and severable contract term, and if one or more of such subparagraphs is held to be invalid, unlawful or otherwise unenforceable the other or others

of such sub-paragraphs shall remain in full force and effect and shall continue to bind the **Parties**; and

- (b) survive termination of the **FFR Contract** and/or **Framework Agreement** concerned.
- 5.3.8 For the avoidance of doubt, nothing in this paragraph 5.3 shall prevent or restrict any **Party** enforcing any obligation (including suing for a debt) owed to it under or pursuant to this **Document** or any **Framework Agreement**.
- 5.3.9 Each **Party** acknowledges and agrees that the provisions of this paragraph 5.3 have been the subject of discussion and negotiation and are fair and reasonable having regard to the circumstances as at the date of submission of the relevant **FFR Tender**.

5.4 TERMINATION OF FRAMEWORK AGREEMENTS

Termination by the FFR Provider

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- 5.4.1 In the event that:-
 - (a) National Grid shall fail to pay (other than by inadvertent error in funds transmission which is discovered by the FFR Provider, notified to National Grid and corrected within five Business Days following such notification) any amount properly due or owing from it pursuant to this Document or any Framework Agreement according to its terms, and such non-payment continues unremedied and not disputed in good faith and upon reasonable grounds at the expiry of seven Business Days immediately following receipt by National Grid of written notice from the FFR Provider of such non-payment; or
 - (b) in respect of **National Grid**:-
 - (i) an order of the High Court is made or an effective resolution passed for its insolvent winding-up or dissolution; or
 - (ii) a receiver (which expression shall include (where relevant) an administrative receiver within the meaning of Section 29 of the Insolvency Act 1986) of the whole or any material part of its assets or undertaking is appointed; or
 - (iii) an administration order under Section 8 of the Insolvency Act 1986 is made or any other steps are taken to appoint an administrator or a voluntary arrangement is proposed under Section 1 of that Act; or
 - (iv) it enters into any scheme of arrangement (other than for the purpose of reconstruction or amalgamation upon terms and within such period as may previously have been approved in writing by the **Authority**); or
 - (v) it is unable to pay its debts within the meaning of Section 123 (1) or (2) of the Insolvency Act 1986 save that such section shall have effect as if for £750.00 there was inserted £250,000 (and National Grid shall not be deemed to be unable to pay its debts if any demand for payment is being contested in good faith by it with recourse to all appropriate measures and procedures),

and in any such case within twenty-eight **Days** of appointment of the liquidator, receiver, administrative receiver, administrator, nominee or other similar officer, such person has not provided to the **FFR Provider** a guarantee of future performance by **National Grid** of all **FFR Contracts** in such form and amount as the **FFR Provider** may reasonably require or

(c) a **Detailed Change Proposal** is implemented in respect of which the **FFR Provider** is not entitled to seek an increase in **Contract Prices** pursuant to sub-paragraph 5.1.10(b)

(as a result of the application of sub-paragraph 5.1.11) which has a significant detrimental effect on the business of the **FFR Provider**,

the **FFR Provider** may declare by notice in writing to **National Grid** that such event or events has become a termination event. Once the **FFR Provider** has given notice of a termination event, all **Framework Agreements** to which the **FFR Provider** is a party shall terminate, but for the avoidance of doubt in the case of sub-paragraph 5.4.1(c) on the basis that no payment shall be due from **National Grid** to the **FFR Provider** as a consequence of such termination save as expressly provided in this **Document**.

Termination by National Grid

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- 5.4.2 In the event that:-
 - (a) the FFR Provider shall fail to pay (other than by inadvertent error in funds transmission which is discovered by National Grid, notified to the FFR Provider and corrected within five Business Days thereafter) any amount properly due or owing from the FFR Provider to National Grid pursuant to this Document or any Framework Agreement according to its terms, and such non-payment continues unremedied and not disputed in good faith and upon reasonable grounds at the expiry of seven Business Days immediately following receipt by the FFR Provider of written notice from National Grid of such non-payment; or
 - (b) in respect of the **FFR Provider**:-
 - (i) an order of the High Court is made or an effective resolution passed for its insolvent winding up or dissolution; or
 - a receiver (which expression shall include (where relevant) an administrative receiver within the meaning of Section 29 Insolvency Act 1986) of the whole or any material part of its assets or undertaking is appointed; or
 - (iii) an administration order under Section 8 of the Insolvency Act 1986 is made or any other steps are taken to appoint an administrator or a voluntary arrangement is proposed under Section 1 of that Act; or
 - (iv) it enters into any scheme of arrangement (other than for the purpose of a reconstruction or amalgamation upon terms and within such period as may previously have been approved in writing by the **Authority**); or
 - it is unable to pay its debts (within the meaning of Section 123(1) or (2) of the Insolvency Act 1986 save that such sections shall have effect as if for £750.00 there was inserted £250,000 and the **FFR Provider** shall not be deemed to be unable to pay its debts if any demand for payment is being contested in good faith by the **FFR Provider** with recourse to all appropriate measures and procedures),

and in any such case within twenty-eight days of appointment of the liquidator, receiver, administrative receiver, administrator, nominee or other similar officer, such person has not provided to **National Grid** a guarantee of future performance by the **FFR Provider** of all **FFR Contract**s in such form and amount as **National Grid** may reasonably require,

National Grid may declare by notice in writing to the **FFR Provider** that such event or events has become a termination event. Once **National Grid** has given notice of a termination event all **Framework Agreements** to which the **FFR Provider** is a party shall terminate.

- 5.4.3 In the event that, in respect of any Contracted FFR Unit:-
 - (a) the **FFR Provider** at any time ceases to be a **Party** to an agreement for connection to and, where required, use of a **System**; or

- (b) the **FFR Provider** ceases to be the **Lead Party** for the purposes of the **Balancing and Settlement Code**; or
- (c) the **FFR Provider** fails to submit to or pass a **Reproving Test** pursuant to sub-paragraph 3.13 Error! Reference source not found.; or
- (d) **National Grid** exercises its right to terminate an **FFR Contract** pursuant to the provisions of this **Document** on more than 3 occasions in any rolling 12 month period,

National Grid may declare by notice in writing to the FFR Provider that such event or events has become a partial termination event. Once National Grid has given notice of a partial termination event the relevant Framework Agreement shall terminate with respect to the Contracted FFR Unit(s) in question.

- 5.4.3A Without prejudice to sub-paragraphs 5.4.1 to 5.4.3 inclusive, any **Framework Agreements** and any subsisting **FFR Contracts** shall also terminate in the circumstances specified in sub-paragraphs 5.12.6 and 5.17.2.
- 5.4.4 Termination of any **Framework Agreement** (in whole or in part) shall be without prejudice to the rights and remedies to which a **Party** may be entitled thereunder and shall not affect any accrued rights or liabilities of either **Party** nor the coming into or continuance in force of any provision thereof which is expressly or by implication intended to come into force on or after such termination.

5.5 ASSIGNMENT

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- 5.5.1 The **FFR Provider** shall not assign or transfer nor purport to assign or transfer the benefit or burden of any **FFR Contract** and/or **Framework Agreement** save in the following circumstances:-
 - (a) the **FFR Provider** may assign or charge its benefit under an **FFR Contract** and/or **Framework Agreement** in whole or in part by way of security; or
 - (b) upon the disposal of the whole or any part of the **FFR Provider**'s business or undertaking of which a **Contracted FFR Unit** forms part, the **FFR Provider** may transfer its rights and obligations under the relevant **Framework Agreement** to the purchaser thereof with the prior written consent of **National Grid** (which shall not be unreasonably withheld or delayed), and all extant **FFR Contracts** with respect to that **Contracted FFR Unit** shall thereupon be deemed to be transferred to such purchaser.
 - 5.5.2 National Grid shall not assign or transfer nor purport to assign or transfer the benefit or burden of any FFR Contract and/or Framework Agreement save that each FFR Provider consents to the assignment or transfer by National Grid of its rights and obligations under all FFR Contracts and Framework Agreements to a person required by a Licence granted under Section 6(1)(b) of the Act to contract for Balancing Services.

5.6 CONFIDENTIALITY AND ANNOUNCEMENTS

5.6.1

General Restrictions

(a) Subject to the exceptions provided in sub-paragraph 5.6.2, and to the extent otherwise expressly permitted or otherwise contemplated by this Document and/or any Framework Agreement, neither Party shall, at any time, whether before or after the expiry or sooner termination of any FFR Contract and/or Framework Agreement, without the prior consent of the other Party in writing, divulge or suffer or permit its officers, employees, agents or contractors to divulge to any person or permit use by any person (other than disclosure to or use by any of its or their respective officers or employees to the extent that such disclosure and use is required to enable such persons properly to carry out their duties in connection with any FFR Contract and/or Framework Agreement) of:-

- (i) any of the contents of any **FFR Tender** or any **Framework Agreement**;
- (ii) any commercially confidential information relating to the negotiations concerning the entering into of any **Framework Agreement**;
- (iii) any commercially confidential information which may come to a **Party**'s knowledge in the course of such negotiations; or
- (iv) any commercially confidential information concerning the operations, contracts, commercial or financial arrangements or affairs of the other **Party**.
- (b) Each **Party** undertakes to use information referred to in sub-paragraph 5.6.1(a) and disclosed to it by the other **Party** solely for the purposes of any **FFR Contract** and/or **Framework Agreement** and shall not use it for any other purpose or for the purposes of any third party.

5.6.2 Exceptions

- (a) The restrictions imposed by sub-paragraph 5.6.1 shall not apply to the disclosure of any information:-
 - (i) which now or hereafter comes into the public domain otherwise than as a result of a breach of a confidentiality obligation or which either **Party** can show was in its written records prior to the date of disclosure of the same by the other **Party** or which it received from a third party independently entitled to disclose it;
 - (ii) which is required by law or pursuant to the rules of the Electricity Supply Industry Arbitration Association in Great Britain or pursuant to the rules or regulations of the Financial Conduct Authority to be disclosed to any person who is authorised by law or pursuant to the rules of the Electricity Supply Industry Arbitration Association in Great Britain or pursuant to the rules or regulations of the Financial Conduct Authority to receive the same;
 - (iii) which is required to be disclosed by the regulations of any recognised exchange upon which the share capital of the **Party** making the disclosure (or its parent undertaking) is or is proposed to be from time to time listed or dealt in, or is required to be disclosed by the Panel on Takeovers and Mergers;
 - (iv) to a court, arbitrator or administrative tribunal in the course of **Proceedings** before it to which the disclosing **Party** is a party;
 - (v) in accordance with the provisions of the **Balancing and Settlement Code** or pursuant to any **Licence** of the **Party** concerned;
 - (vi) to any parent, subsidiary or fellow subsidiary undertaking on a "need to know" basis only;
 - (vii) to any authorised consultants, banks, financiers, insurers or professional advisers to the disclosing **Party**; or
 - (viii) required or expressly permitted to be disclosed under the terms of any agreement or arrangement (including this **Document**, the **Grid Code**, the **Connection and Use of System Code**, the **Distribution Code** and the **Fuel Security Code** (if any)) to which the **Parties** have agreed to be bound.
 - (b) From and including 1st April 2017, the restrictions imposed by sub-paragraph 5.6.1 shall, subject to sub-paragraph 5.6.4, also not apply to the disclosure by National Grid of the following information (or as may be otherwise agreed between National Grid and the FFR Provider in a Framework Agreement) to the FFR Provider's host Public Distribution System Operator:-

- (i) the meter point administration number associated with the FFR Unit; and
- (ii) all operational data (including, without limitation, service type, volume and calloff instructions) ; and
- (c) In this sub-paragraph 5.6.2, the words "parent", "subsidiary" and "undertaking" shall have the meanings as provided in Sections 1161 and 1162 of the Companies Act 2006.
- (d) If the **FFR Provider** does not want **National Grid** to disclose any information described in sub-paragraph 5.6.2(b), it must notify **National Grid** in writing by giving not less than twenty (20) **Business Days'** notice stating the contract log number(s) of the relevant **Framework Agreement**.

5.6.3 Third Parties

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Before either **Party** discloses any information in any of the circumstances described in subparagraph 5.6.2(a)(vi) and (vii) or, in the case of **National Grid**, any of the information described in sub-paragraph 5.6.2(b) (other than to its authorised professional advisers), it shall notify the other **Party** of its intention to make such disclosure and procure the execution and delivery to that **Party** of an undertaking executed by the person to whom the disclosure is proposed to be made being in the same terms mutatis mutandis as the undertakings contained in this paragraph 5.6.

5.6.4 **Public announcements**

- (a) Subject to sub-paragraph 5.6.4(a), no public announcement or statement regarding the signature, performance or termination of any FFR Contract and/or Framework Agreement shall be issued or made unless before it is issued or made both the Parties have been furnished with a copy of it and have approved it (such approval not to be unreasonably withheld or delayed).
- (b) Neither **Party** shall be prohibited from issuing or making any such public announcement or statement to the extent expressly permitted or otherwise contemplated by this **Document** and/or any **Framework Agreement** or if it is necessary to do so in order to comply with any applicable law or the regulations of any recognised stock exchange upon which the share capital of such **Party** is from time to time listed or dealt in.

5.6.5 **Procedures**

(a)

With respect to the information referred to in sub-paragraph 5.6.1(a), both **Parties** shall ensure that:-

- such information is disseminated within their respective organisations on a "need to know" basis only;
- (b) employees, directors, agents, consultants and professional advisers who are in receipt of such information are made fully aware of the **Party**'s obligations of confidence in relation thereto; and
- (c) any copies of such information, whether in hard copy or computerised form, will clearly identify the information as confidential.

5.6.6 **Termination**

Notwithstanding any other provision of this **Document** and/or any **Framework Agreement**, the provisions of this paragraph 5.6 shall continue to bind a person after termination of any **FFR Contract** and/or **Framework Agreement**, in whole or in part, for whatever reason.

5.7 WAIVER

No delay by or omission of any **Party** in exercising any right, power, privilege or remedy under this **Document** or any **Framework Agreement** shall operate to impair such right, power, privilege or remedy or be construed as a waiver thereof. Any single or partial exercise of any such right, power, privilege or remedy shall not preclude any other or further exercise thereof or the exercise of any other right, power, privilege or remedy. Payment of any sum or the submission of any **Monthly Statement** by **National Grid** to the **FFR Provider** under this **Document** or any **Framework Agreement** shall not operate to impair or be construed as a waiver of any right, power, privilege or remedy **National Grid** may have against the **FFR Provider** under this **Document** and/or any **Framework Agreement** or otherwise whatsoever and howsoever arising or arisen.

5.8 NOTICES

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- 5.8.1 Any notice or other communication to be given by one **Party** to the other under, or in connection with the matters contemplated by this **Document** or any **Framework Agreement**, shall unless otherwise expressly agreed herein be addressed to the recipient and sent to the address, e-mail address or facsimile number of such other **Party** set out in the relevant **Framework Agreement** for the purpose and marked for the attention of the person so given or to such other address, e-mail address or facsimile number and/or marked for such other attention as such other **Party** may from time to time specify by notice given in accordance with this paragraph 5.8 to the **Party** giving the relevant notice or other communication to it.
- 5.8.2 Any notice or other communication to be given by one **Party** to the other **Party** under, or in connection with the matters contemplated by, this **Document** or any **Framework Agreement** shall unless otherwise expressly agreed herein be in writing and shall be given by letter delivered by hand or sent by first class prepaid post (airmail if overseas), e-mail or facsimile, and shall be deemed to have been received:-
 - (a) in the case of delivery by hand, when delivered; or
 - (b) in the case of first class prepaid post, on the second day following the day of posting or (if sent airmail from overseas) on the fifth day following the day of posting;
 - (c) in the case of facsimile, on acknowledgement by the addressee's facsimile receiving equipment (where such acknowledgement occurs before 17.00 hours on the day of acknowledgement and in any other case on the day following the day of acknowledgement); or
 - (d) in the case of e-mail, on acknowledgement that the e-mail has been delivered to the addressee's inbox by way of a delivery receipt (where such acknowledgement occurs before 17:00 hours on the day of acknowledgement) and in any other case on the day following the day of acknowledgement).

5.9 DISPUTE RESOLUTION

- 5.9.1 Save where expressly stated in this **Document** or in any **Framework Agreement** to the contrary and subject to any contrary provision of the **Act** or any **Licence**, and subject always to sub-paragraph 5.9.3, any dispute or difference of whatever nature howsoever arising under, out of or in connection with this **Document** or any **Framework Agreement** between the **Parties** shall be and is hereby referred to arbitration pursuant to the arbitration rules of the **Electricity Supply Industry Arbitration Association** in force from time to time.
- 5.9.2 Whatever the nationality, residence or domicile of either **Party** and wherever the dispute or difference or any part thereof arose, the laws of England and Wales shall be the proper law of any reference to arbitration hereunder and in particular (but not so as to derogate from the generality of the foregoing) the provisions of the Arbitration Act 1996 (notwithstanding anything in Section 108 thereof) shall apply to any such arbitration wherever the same or any part of it shall be conducted.

- 5.9.3 Where a provision of this **Document** or any **Framework Agreement** expressly provides for the referral by **National Grid** or an **FFR Provider** of any matter or matters in dispute to **Expert Determination**, the following provisions shall apply:-
 - (a) the **Expert** shall act as an expert and not as an arbitrator and shall decide those matters referred to him using his skill, experience and knowledge, and with regard to all such other matters as he in his sole discretion considers appropriate;
 - (b) if **National Grid** or the **FFR Provider** cannot agree upon the selection of an **Expert**, the **Expert** shall be determined by the President for the time being of the Law Society of England and Wales;
 - (c) all references to the Expert shall be made in writing by either National Grid or the FFR Provider with notice to the other being given contemporaneously, and National Grid and the FFR Provider shall promptly supply the Expert with such documents and information as he may request when considering any referral;
 - (d) the **Expert** shall be requested to use his best endeavours to give his decision upon the question before him as soon as possible in writing following its referral to him, his decision shall, in the absence of fraud or manifest error, be final and binding upon **National Grid** and the **FFR Provider**;
 - (e) if the **Expert** wishes to obtain independent professional and/or technical advice in connection with the question before him:-
 - (i) he shall first provide **National Grid** and the **FFR Provider** with details of the name, organisation and estimated fees of the professional or technical adviser; and
 - (ii) he may engage such advisor with the consent of National Grid and the FFR Provider (which consent shall not be unreasonably withheld or delayed) for the purposes of obtaining such professional and/or technical advice as he may reasonably require;
 - (f) the Expert shall not be held liable for any act or omission, and his written decision will be given without any liability on the Expert's part to either National Grid or the FFR Provider, unless it shall be shown that he acted fraudulently or in bad faith;
 - (g) save to the extent otherwise expressly provided herein pending the determination by the **Expert**, any subsisting **FFR Contract(s)** shall continue to the extent possible for **National Grid** and the **FFR Provider** to perform their obligations under such **FFR Contract(s)**; and
 - the **Expert** shall at his discretion be entitled to order that the costs of the reference of a dispute to him shall be paid by **National Grid** and/or the **FFR Provider** in whatever proportions he thinks fit.

5.10 JURISDICTION

(h)

- 5.10.1 Subject and without prejudice to paragraph 5.9 and to sub-paragraph 5.10.4, both **Parties** irrevocably agree that the courts of England and Wales and the courts of Scotland are to have jurisdiction to settle any disputes which may arise out of or in connection with this **Document** and/or any **Framework Agreement** and that accordingly any suit, action or proceeding (together in this paragraph 5.10 referred to as "**Proceedings**") arising out of or in connection with this **Document** and/or any **Framework Agreement** may be brought to such courts.
- 5.10.2 Each **Party** irrevocably waives any objection which it may have now or hereafter to the laying of the venue of any **Proceedings** in any such court as is referred to in this paragraph 5.10 and any claim that any such **Proceedings** have been brought in an inconvenient forum and further irrevocably agrees that judgment in any **Proceedings** brought in the courts of

England and Wales or the courts of Scotland shall be conclusive and binding upon such **Party** and may be enforced in the courts of any other jurisdiction.

- 5.10.3 Each **Party** which is not incorporated in any part of **Great Britain** agrees that if it does not have, or shall cease to have, a place of business in **Great Britain** it will promptly appoint, and shall at all times maintain, a person in **Great Britain** to accept service of process on its behalf in any **Proceedings** in **Great Britain**.
- 5.10.4 For the avoidance of doubt nothing contained in the foregoing provisions of this paragraph 5.10 shall be taken as permitting a party to commence **Proceedings** in the courts where this **Document** or any **Framework Agreement** otherwise provides for **Proceedings** to be referred to arbitration.

5.11 GOVERNING LAW

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This **Document** and each **Framework Agreement** and **FFR Contract** shall be governed by and construed in all respects in accordance with English law.

5.12 FORCE MAJEURE

- 5.12.1 In so far as either **Party** is prevented from performing any of its obligations under this **Document** and/or any **Framework Agreement** due to an event or circumstance of **Force Majeure**, then neither the **FFR Provider** nor **National Grid** (as the case may be) shall be deemed to be in breach of such obligations for so long as the circumstance of **Force Majeure** continues to prevent such performance.
- 5.12.2 If **National Grid** is unable to instruct (or deem to instruct) or otherwise accept the provision of **Firm Frequency Response** pursuant to paragraph 3.3 and/or 3.5 due to an event or circumstance of **Force Majeure**, it shall not be obliged to make any payment to the **FFR Provider** pursuant to paragraph 3.5, in respect of the period during which the event or circumstance of **Force Majeure** continues to prevent such acceptance and/or ability to issue an instruction.
- 5.12.3 The **Party** affected by the **Force Majeure** shall give to the other **Party** immediately upon becoming aware of an event or circumstance of **Force Majeure**, a written communication describing the **Force Majeure** (including, without limitation, the nature of the occurrence and its expected duration) and the obligations which it is prevented from performing and shall continue to furnish regular reports with respect thereto to the other **Party** during the period of **Force Majeure**.
- 5.12.4 As soon as is reasonably practicable, following an event or circumstance of **Force Majeure**, the **Parties** shall meet to discuss how best to continue their respective obligations as set out in this **Document** and the relevant **Framework Agreement**.
- 5.12.5 For the avoidance of doubt the non-performance of either **Party**'s obligations pursuant to this **Document** and any **Framework Agreement** arising prior to the event or circumstance of **Force Majeure**, shall not be excused as a result of the event or circumstance of **Force Majeure**.
- 5.12.6 Either **Party** shall have a right to terminate the provisions of the relevant **FFR Contract** and/or **Framework Agreement** if a **Party** has been prevented from performing its obligations under this **Document** and such **Framework Agreement** due to an event or circumstance of **Force Majeure** for a continuous period of two calendar months.

5.13 SEVERANCE OF TERMS

If any provision of this **Document** or any **Framework Agreement** is or becomes or is declared invalid, unenforceable or illegal by the courts of any jurisdiction to which it is subject or by order of the European Commission or by order of the Secretary of State, such invalidity, unenforceability or illegality shall not prejudice or affect the remaining provisions of this **Document** and such **Framework** Agreement and the relevant **FFR Contract** which shall continue in full force and effect notwithstanding such invalidity, unenforceability or illegality.

5.14 ENTIRE AGREEMENT

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This **Document** and the relevant **Framework Agreement** contain or expressly refer to the entire agreement between the **Parties** with respect to the subject matter of such agreements, and expressly excludes any warranty, condition or other undertaking implied at law or by custom, and supersedes all previous agreements and understandings between the **Parties** with respect thereto and each of the **Parties** acknowledges and confirms that it is not aware of any representation, warranty or other undertaking not fully reflected in the terms of this **Document** and each relevant **Framework Agreement** upon which it has relied in entering into this **Document** and each relevant **Framework Agreement**. To the extent that any such representation, warranty or other undertaking exists, each **Party** irrevocably and unconditionally waives any right it may have to claim damages for breach of warranty and/or to rescind any **Framework Agreement** and/or **FFR Contract**, unless such warranty or misrepresentation was made or given fraudulently.

5.15 THIRD PARTY RIGHTS

The **Parties** acknowledge and agree for the purposes of the Contracts (Rights of Third Parties) Act 1999 that no rights, powers of benefits are or shall be conferred on any person pursuant to this **Document** or any **Framework Agreement** save as expressly provided in this **Document** or such **Framework Agreement**.

5.16 APPOINTMENT OF AGENT

For the purposes of both making and receiving communications and payments to and from **National Grid** under Section 3, the **FFR Provider** may appoint an agent to act on its behalf, and in connection therewith the **Parties** agree that:-

- 5.16.1 such appointment shall be acknowledged in the relevant **Framework Agreement** or otherwise notified to **National Grid** by the **FFR Provider** by not less than twenty-eight calendar days' prior notice in writing, and in either case termination or other expiry of such appointment shall be notified to **National Grid** by not less than twenty-eight calendar days' prior notice in writing from the **FFR Provider**;
- 5.16.2 such appointment shall not relieve the **FFR Provider** from any liability or obligation under this **Document** or any **Framework Agreement**;
- 5.16.3 until **National Grid** is notified of termination or expiry of such appointment pursuant to subparagraph 5.16.1, communications and payments made to and by such agent under this **Document** shall be effective as if made to and by the **FFR Provider**, and without limiting the foregoing such agent shall have full power and authority to accept payments from **National Grid** under this **Document** on behalf of the **FFR Provider** in valid discharge of **National Grid**'s obligations in respect thereof; and
- 5.16.4 for the purposes of sub-paragraph 5.6.1, each of the **Parties** gives its consent to the disclosure by the other to such agent of the information referred to therein insofar as disclosed for the purposes of any **FFR Contract** and/or **Framework Agreement** and the **Parties**' respective obligations under this **Document**, and in connection therewith the **FFR Provider** shall procure that such agent observes the restrictions set out in paragraph 5.6 (as if references to the relevant **Party** were to such agent, and for the avoidance of doubt on the basis that the exceptions set out in sub-paragraph 5.6.2 apply as if references to a **Party** were references to such agent) and shall be responsible under this **Document** for any failure by such agent to observe such restrictions.

5.17 ANTI-BRIBERY

- 5.17.1 Each **Party** shall:
 - (a) comply with **Anti Bribery Law**;

- (b) not engage in any activity, practice or conduct which would constitute an offence under sections 1, 2 or 6 of the **Bribery Act** if such activity, practice or conduct had been carried out in the UK;
- (c) have and shall maintain in place, throughout the term of a **Framework Agreement**, its own policies and procedures, including **Adequate Procedures**, to ensure compliance with **Anti Bribery Law** and this paragraph 5.17, and will enforce them where appropriate; and
- (d) procure and ensure that all of its **Associated Persons** and/or other persons who are performing services in connection with a **Firm Frequency Response** Agreement comply with this paragraph 5.17.
- 5.17.2 If either **Party** breaches this paragraph 5.17 then, without prejudice to any other rights or remedies, the other **Party** may immediately terminate the **Framework Agreement** and any subsisting **FFR Contract** on written notice to the **Party** in breach.

5.17.3 EMR

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Notwithstanding any confidentiality obligations and any restriction on the use or disclosure of information set out in this **Document**, the **FFR Provider** consents to **National Grid** and each of its subsidiaries using all and any information or data supplied to or acquired by it in any year under or in connection with this **Document** for the purposes of carrying out its **EMR Functions**.

The provisions relating to the resolution of disputes set out in this **Document** (if any) are subject to any contrary provision of an **EMR Document**.

Where for the purposes of this provision only:-

"AF Rules"	has the meaning given to "allocation framework" in section 13(2) of the Energy Act 2013;
"Capacity Market Rules"	means the rules made under section 34 of the Energy Act 2013 as modified from time to time in accordance with that section and The Electricity Capacity Regulations 2014;
"EMR Document"	means The Energy Act 2013, The Electricity Capacity Regulations 2014, the Capacity Market Rules, The Contracts for Difference (Allocation) Regulations 2014, The Contracts for Difference (Definition of Eligible Generator) Regulations 2014, The Contracts for Difference (Electricity Supplier Obligations) Regulations 2014, The Electricity Market Reform (General) Regulations 2014, the AF Rules and any other regulations or instruments made under Chapter 2 (capacity market) or Chapter 4 (investment contracts) of Part 2 of the Energy Act 2013 which are in force from time to time;
"EMR Functions"	has the meaning given to "EMR functions" in Chapter 5 of Part 2 of the Energy Act 2013.

<u>SECTION 6</u> INTERPRETATION AND DEFINITIONS

6.1 INTERPRETATION AND CONSTRUCTION

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- 6.1.1 In this **Document** and in each **Framework Agreement**:-
 - (a) unless the context otherwise requires, all references to a particular paragraph or Section shall be a reference to that paragraph or Section in or to this **Document**, and all references to a particular Clause or Appendix shall be a reference to that Clause or Appendix in or to a **Framework Agreement**;
 - (b) a table of contents and headings are inserted for convenience only and shall be ignored in construing this **Document** or a **Framework Agreement**;
 - (c) references to the words "include" or "including" are to be construed without limitation to the generality of the preceding words;
 - (d) unless the context otherwise requires any reference to an Act of Parliament or any part or section or other provision of or section to an Act of Parliament shall be construed, at the particular time, as including a reference to any modification, extension or re-enactment thereof then in force and to all instruments, order or regulations then in force and made under or deriving validity from the relevant Act of Parliament;
 - (e) references to the masculine shall include the feminine and references in the singular shall include the plural and vice versa and words denoting persons shall include any individual, partnership, firm, company, corporation, joint venture, trust, association, organisation or other entity, in each case whether or not having separate legal personality; and
 - (f) save as otherwise expressly provided in this **Document**, in the event of any inconsistency between the provisions of any **Framework Agreement** and this **Document**, the provisions of the **Framework Agreement** shall prevail in relation to the subject matter thereof.

6.2 INTERPRETATION OF TABLES

(a)

- 6.2.1 For the purposes of this **Document**, the figures for **Firm Frequency Response** set out in the **FFR Capability Data Tables** shall be given in relation to specific **Frequency Deviations** and to specific levels of **De-Load** for a **Contracted FFR Unit**.
- 6.2.2 Unless otherwise specified in a **Framework Agreement**, each **FFR Capability Data Table** shall be construed as follows:
 - for a **Frequency Deviation** at a given time differing from the figures given in a table, the level of **Firm Frequency Response** shall be calculated by linear interpolation from the figures specified in the table in respect of **Frequency Deviations**;
 - (b) for a level of **De-Load** at a given time differing from the figures given in a table, the level of **Firm Frequency Response** shall be calculated by linear interpolation from the figures specified in the table in respect of levels of **De-Load**, and for the avoidance of doubt, **Mode D** and **Mode F Frequency Response** shall not be instructed for any **De-Load** greater than the maximum level of **De-Load** given in the relevant **FFR Capability Data Table**;
 - (c) in respect of any time in relation to which both paragraphs 6.2.2(a) and (b) apply, the level of **Firm Frequency Response** shall be calculated by dual linear interpolation from the figures specified in the tables in respect of **Frequency Deviations** and in respect of levels of **De-Load**;

(d) for any **Frequency Deviation** greater than the greatest **Frequency Deviation** given in the **FFR Capability Data Tables** (whether positive or negative), the level of **Firm Frequency Response** shall be calculated by reference to the greatest **Frequency Deviation** (positive or negative as the case may be) given in that table; and

(e) for the purposes of calculating levels of Firm Frequency Response in respect of Frequency Deviations lower than those specified in the FFR Capability Data Tables, the relevant FFR Capability Data Table shall be deemed to specify a level of zero Firm Frequency Response for a Frequency Deviation of zero.

6.3 **DEFINITIONS**

In this **Document**, unless the subject matter or context otherwise requires, or is inconsistent therewith, the following terms shall have the following meanings:

"the Act"	means the Electricity Act 1989;
"ABSVD Methodology Statement"	means the document entitled "Applicable Balancing Services Volume Data Methodology Statement" as published by National Grid as the same may be amended from time to time;
"Active Power"	means the product of voltage and the in-phase component of alternating current measured in units of Watts and standard multiples thereof i.e. 1000 Watts = 1000 Watts = 1000 kW = 1000 kW = 1000 MW = 1000 MW = 1000 GW = 11 W ;
"Additional Response"	means, in relation to a Contracted FFR Unit , a level of Response in excess of the Initial Response tendered by the FFR Provider ;
"Adequate Procedures"	shall be determined in accordance with section 7(2) of the Bribery Act (and any guidance issued under section 9 of that Act);
"Affected FFR Contract"	means a subsisting FFR Contract in force at the date that National Grid submits a Detailed Change Proposal and whose term continues beyond the Final Implementation Date specified therein;
"Affected FFR Provider"	means, with respect to any Detailed Change Proposal, an FFR Provider which is a party to one or more Affected FFR Contracts, and which is of the reasonable opinion that;- (1) its ability to provide Firm Frequency Response and/or comply with such Affected FFR Contract(s) will be materially prejudiced by the amendments to this Document described in such Detailed Change Proposal; and/or (2) the net cost to it of providing Firm Frequency Response and/or complying with such Affected FFR Contract(s) is materially increased as a result of such amendments;

"Agreed Operational Metering Equipment"	means meters, instrument transformers (both voltage and current), transducers metering protection equipment including alarms circuitry and their associated outstations as may be necessary for the purposes of enabling National Grid to monitor the FFR Provider's provision of Firm Frequency Response from the Contracted FFR Unit, to be agreed in writing with National Grid within the Framework Agreement(s);
"Ancillary Services"	means System Ancillary Services and/or Commercial Ancillary Services, as the case may be;
"Anti Bribery Law"	means all applicable laws, statutes, regulations, and codes relating to anti-bribery and anti-corruption including but not limited to the Bribery Act ;
"Apparatus"	means all equipment in which electrical conductors are used, supported or of which they may form a part;
"Applicable Balancing Service"	has the meaning attributed to it in the Balancing and Settlement Code;
"Associated Person"	has the meaning ascribed to it in section 8 of the Bribery Act and shall include but is not limited to any employees, agents and/or subcontractors of the FFR Provider or National Grid as applicable in relation to the provision of the Commercial Ancillary Services ;
"Authorised Electricity Operator"	means any person (other than National Grid in its capacity as operator of the National Electricity Transmission System) who is authorised to generate, transmit, distribute or supply electricity;
"Authority"	means the Gas and Electricity Markets Authority established by section 1 of the Utilities Act 2000;
"Automatic Logging Device"	means any electronic apparatus or other device capable of relaying instructions and confirmations between National Grid and the FFR Provider and/or memorising and storing any instructions and confirmations so given;
"Automatic Response"	means either the automatic reduction of Demand or increase of Generation following a fall in System Frequency below the applicable Frequency Trigger , or the automatic increase of Demand or reduction of Generation following an increase in System Frequency above the applicable Frequency Trigger , as the case may be;
"Automatic Response Energy Deliverable"	means the amount of Automatic Response to be delivered from a Contracted FFR Unit for the applicable Frequency Trigger as set out or referred to in the FFR Tender;
"Availability Fee"	means, in relation to a Contracted FFR Unit :

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	(a) the fee (\pounds/h) described as such in the FFR Tender ;
	(a) the ree (1/h) described as such in the FFK Tender , or
	(b) if the Contracted FFR Unit is the subject of a subsisting FFR Contract in respect of Additional Response , the aggregate of the fee (\pounds/h) described as such in the FFR Tender for the Initial Response and the fee (\pounds/h) described as such in the FFR Tender for the Additional Response ;
"Availability Payment"	has the meaning attributed to it in sub-paragraph $3.5.1$ (a);
"Balancing and Settlement Code (BSC)"	has the meaning attributed to it in the Transmission Licence;
"Balancing Mechanism"	has the meaning attributed to it in the Transmission Licence;
"Balancing Services"	has the meaning attributed to it in the Transmission Licence;
"Bank Holiday"	means any day (other than Sunday) on which clearing banks are closed for normal banking business in sterling in the city of London;
"Base Rate"	means, in respect of any day, the rate per annum which is equal to the base lending rate from time to time of Barclays Bank plc as at the close of business on the immediately preceding Business Day ;
"Bid-Offer Acceptance"	has the meaning attributed to it in the Grid Code;
"BM Unit"	has the meaning attributed to it in the BSC , except for the purposes of this Document the reference to "a Party" in the BSC shall be a reference to the FFR Provider ;
"BM Unit Data"	has the meaning attributed to it in the Grid Code;
"Bribery Act"	means the Bribery Act 2010;
"Business Day"	means a week-day other than a Saturday on which banks are open for domestic business in the City of London;
"Change in Law"	means the coming into effect of :-(1)a Legal Requirement; or(2)any applicable judgement of arelevant court of law which materiallychanges a binding precedent;
"Commencement Date"	means (where the context permits) the date specified either in a FFR Tender or in National Grid 's notification of acceptance of an FFR Tender pursuant to sub-paragraph 2.8.1 from which an FFR Contract for Firm Frequency Response shall come into effect;
"Commercial Ancillary Services"	means Ancillary Services other than System Ancillary Services;

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"Competent Authority"	means the Gas and Electricity Markets Authority or any local, national or supra-national agency, authority, department, inspectorate, minister, official, court, tribunal or public or statutory person (whether autonomous or not) of the United Kingdom (or the government thereof) or the member states of the European Union which have jurisdiction over National Grid or the subject matter of this Document ;
"Connection Agreement"	means any agreement in respect of the connection (including the maintenance and modification of that connection) of Plant and Apparatus to a System ;
"Connection and Use of System Code (CUSC)"	means the Connection and Use of System Code designated by the Secretary of State as from time to time modified;
"Connection Site"	has the meaning attributed to it in the CUSC ;
"Consumption BM Unit"	has the meaning attributed to it in the BSC ;
"Contract Prices"	in respect of any Contracted FFR Unit means the Availability Fee and the Response Energy Payment (where applicable), each as specified as such in the relevant FFR Tender ;
"Contracted FFR Unit"	means an FFR Unit that is, at the relevant time, subject to a subsisting FFR Contract ;
"CUSC Framework Agreement"	has the meaning attributed to it in the Transmission Licence;
"Customer"	means a person to whom electrical power is provided (whether or not he is the same person as the person who provides the electrical power) other than power to meet Station Demand of that person;
"Day"	means a calendar day;
"De-Load"	has the meaning attributed to it in the Grid Code ;
"Defaulting Party"	has the meaning attributed to it in sub-paragraph 5.2.7;
"Demand"	has the meaning attributed to it in the CUSC ;
"Demand Response Active Power Control"	has the meaning attributed to it in the Grid Code;
"Demand Response Provider"	has the meaning attributed to it in the Grid Code ;
"Demand Response Services Code"	has the meaning attributed to it in the Grid Code ;
"De-Synchronised"	has the meaning attributed to it in the Grid Code ;
"Detailed Change Proposal"	means a proposal prepared by National Grid for the purposes of sub-paragraph 5.1.6;
"Directive"	means any present or future directive, request, requirement, instruction, code of practice, direction or

	rule of any Competent Authority and any modification, extension or replacement thereof;
"Distribution Code(s)"	means the Distribution Code(s) drawn up by Public Distribution System Operators pursuant to the terms of their respective Licence (s) as from time to time revised in accordance with those Licence s;
"Distribution Licence"	means a Licence issued under section 6(1)(c) of the Act;
"Distribution System"	means the System consisting (wholly or mainly) of electric lines owned or operated by any Authorised Electricity Operator and used for the distribution of electricity from Grid Supply Points or Generation sets or other entry points to the point of delivery to Customers or Authorised Electricity Operators , and includes any Remote Transmission Assets operated by such Authorised Electricity Operator and any electrical Plant and meters owned or operated by the Authorised Electricity Operator in connection with the distribution of electricity, but shall not include any part of the National Electricity Transmission System ;
"Document"	means this issue of the Firm Frequency Response Tender Rules and Standard Contract Terms;
"DRSC Liable User"	means any FFR Provider party to an FFR Contract which pursuant to the Grid Code renders it a Demand Response Provider by virtue of the relevant FFR Unit comprising a source of controllable Demand;
"Dynamic Demand"	means any Demand which has the ability to change its Active Power consumption, in Response to a change in System Frequency , in a direction which assists in the recovery to Target Frequency or 50Hz, by operating as to provide Primary Response and/or Secondary Response and/or High Frequency Response ;
"Dynamic Parameters"	has the meaning attributed to it in the Grid Code ;
"EDL"	means the electronic despatch logging mechanism by which National Grid communicates with the FFR Provider and the FFR Provider communicates with National Grid in respect of the Contracted FFR Units for the purposes of operation of the Balancing Mechanism and the utilisation of Ancillary Services;
"EFA Day"	means the period commencing 23.00 hours on any Day and ending 23.00 hours on the next following Day , so that the start of one EFA Day coincides with the end of the previous EFA Day (and for the purposes of this Document a Day shall be deemed to precede an EFA Day when it is the Day on which the EFA Day starts, and shall be deemed to correspond to the EFA Day when it is the Day on which the EFA Day ends);

"Electricity Supply Industry Arbitration Association"	has the meaning attributed to it in the Grid Code;
"Energy Metering Equipment"	has the meaning attributed to the phrase "Metering Equipment" in the Balancing and Settlement Code ;
"Enhanced Rate"	means, in respect of any Day , the rate per annum which is 4% above the base lending rate from time to time of Barclays Bank plc as at the close of business on the immediately preceding Business Day ;
"Expert"	means an independent expert appointed for the purposes of Expert Determination ;
"Expert Determination"	means the process specified in sub-paragraph 5.9.3;
"External Interconnection"	has the meaning attributed to it in the Grid Code;
"FFR Assessments and Testing"	has the meaning attributed to it in paragraph 4.1;
"FFR Capability Data Tables"	means the data tables set out or referred to as such in the Framework Agreement ;
"FFR Confirmed Part Load Point"	means, in respect of any EFA Day, the Part Load Point notified as such by the FFR Provider pursuant to sub-paragraph <u>3.2.3</u> 3.2.1(a), being a figure within the Part Load Point range defined by the Maximum Part Load Point and the Minimum Part Load Point, or (where applicable) the Part Load Point specified as such pursuant to sub-paragraph <u>3.2.5</u> - <u>3.2.1(e)</u> ;
"FFR Contract"	means each and every contract between National Grid and the FFR Provider for the provision by the FFR Provider –to National Grid of Firm Frequency Response upon and subject to the terms of an FFR Tender, this Document and the relevant Framework Agreement, formed upon acceptance by National Grid of that FFR Tender pursuant to sub-paragraph 2.8.1 and ending upon expiry of the FFR Contracted Service Term or earlier termination pursuant to paragraph 3.14;
"FFR Contracted Service Term"	means the tendered Service Term comprised within an FFR Tender which has been accepted by National Grid pursuant to sub-paragraph 2.8.1;
"FFR Power Delivery Data Tables"	means the data tables set out or referred to in the Framework Agreement ;
"FFR Pre-Qualification Assessment"	means the test or sequence of tests referred to in Section 4 for the purposes of ensuring the FFR Unit is capable of complying with the mandatory requirements in respect of Firm Frequency Response ;
"FFR Provider"	means each person (other than National Grid) for the time being and from time to time a party to a Framework Agreement and any successor(s) in title to, or permitted assign(s) of, such person;

"FFR Service Procedure"	means the procedure established from time to time by
	National Grid for the instruction and delivery of Firm Frequency Response;
"FFR Service Window"	means the hours of service availability tendered in each EFA Day during a tendered Service Term , being one or more continuous periods of whole Settlement Periods ;
"FFR Tender"	means a tender for provision of Firm Frequency Response submitted pursuant to paragraph 2.3 being a Single Month Tender or Multiple Month Tender ;
"FFR Tender Procedure"	means the procedure established from time to time by National Grid for the procurement of FFR Contracts, comprising the Pro-Forma Sheets or any alternative web based platform;
"FFR Unit"	means either (1) a single BM Unit or (as the case may be) Site or (2) two or more Sites which together meet the requirements of sub-paragraph 2.2.2;
"Final Implementation Date"	means the Proposed Implementation Date or, in the case of a Detailed Change Proposal required as a result of a Proposed Legal Requirement , the date that the relevant Change in Law is currently expected by National Grid to come into effect;
"Final Monthly Settlement"	has the meaning attributed to it in sub-paragraph 5.2.2;
"Firm Frequency Response"	means the firm availability of either-dynamic or static Response provided upon and subject to the terms of this Document ;
"Framework Agreement(s)"	means the agreement or agreements to which National Grid and the FFR Provider are a party more particularly referred to in paragraph 1.1;
"Firm Frequency Sensitive Mode"	means an operating mode which will result in Active Power output changing, in Response to a change in System Frequency, in a direction which assists in the recovery to Target Frequency or 50Hz, by operating so as to provide Primary Response and/or Secondary Response and/or High Frequency Response;
"Force Majeure"	means, in relation to either Party , any event or circumstance which is beyond the reasonable control of such Party (not being, without limitation an event or circumstance caused by the negligence or lack of care and attention of that Party or its officers or employees) but subject thereto including act of God, strike lockout or other industrial disturbance, act of the public enemy, war declared or undeclared, threat of war, terrorist act, blockade, revolution, riot, insurrection, civil commotion, public demonstration, sabotage, act of vandalism, lightning, fire, storm, flood, earthquake, accumulation of snow or ice, lack of water arising from weather or environmental problems, explosion, governmental restraint, Act of

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	Parliament, other legislation, bye law and Directive (not being any order, regulation or direction under Section 32, 33, 34 and 35 of the Act);
"Frequency"	means the number of alternating current cycles per second (expressed in Hertz) at which a System is running;
"Frequency Deviation"	has the meaning attributed to it in the CUSC;
"Frequency Sensitive Load Device"	has the meaning attributed to it in the Framework Agreement ;
"Frequency Sensitive Mode"	has the meaning attributed to it in the Grid Code;
"Frequency Trigger"	means the, or one of the, Frequency level(s) specified in the Framework Agreement at which-either static Firm Frequency Response or, in certain cases, dynamic Firm Frequency Response is provided from an FFR Unit;
"Frequency Trigger Tolerance Band"	means the range of all Frequency levels from and including 0.01 Hz below the Frequency Trigger to and including 0.01 Hz above the Frequency Trigger ;
"Fuel Security Code"	means the document of that title designated as such by the Secretary of State as from time to time amended;
"Gas Turbine Unit"	has the meaning attributed to it in the CUSC;
"Gate Closure"	means, in relation to a Settlement Period , the spot time one hour before the spot time at the start of that Settlement Period , or otherwise as may be defined from time to time in the BSC ;
"Gate Closure Period"	means the period between Gate Closure and the spot time at the start of the associated Settlement Period ;
"GBSO"	means the Great Britain System Operator;
"Generating Plant"	has the meaning attributed to it in the CUSC;
"Generating Unit"	unless otherwise provided in any Framework Agreement , means any Apparatus which produces electricity including for the avoidance of doubt a CCGT Unit ;
"Generation"	means the electrical output (in MW) of a Generating Unit ;
"Genset"	has the meaning attributed to it in the Grid Code;
"Great Britain"	has the meaning attributed to it in Schedule 1 of the Transmission Licence ;
"Grid Code"	means the Grid Code drawn up pursuant to the Transmission Licence as from time to time revised in accordance with the Transmission Licence (and references in this Document or any Framework Agreement to any specific provision or part of the

	Grid Code shall be construed as references to such
	provision or part as from time to time amended);
"Grid Code CC"	means the Connection Conditions of the Grid Code ;
"Grid Code OC"	means the Operating Codes of the Grid Code ;
"Grid Entry Point"	means a point at which a Generating Unit or a CCGT Module or a CCGT Unit , as the case may be, which is directly connected to the National Electricity Transmission System , connects to the National Electricity Transmission System ;
"Grid Supply Point"	means a point of supply from the National Electricity Transmission System to a Distribution System or a Non-Embedded Customer;
"High Frequency Response"	has the meaning attributed to it in the Grid Code;
"Industry Information Website"	the site established by National Grid on the World- Wide Web for the publication of information for the use of FFR Providers and other interested persons in accordance with such restrictions on access as may be determined from time to time by National Grid ;
"Initial Response"	means, in relation to an FFR Tender in respect of a Contracted FFR Unit , and in the circumstances specified in sub-paragraph 2.4.2(b), the amount of Response to be delivered in accordance with the subsisting FFR Contract ;
"LDTEC"	has the meaning attributed to it in the CUSC;
"Lead Party"	has the meaning attributed to it in the BSC ;
"Legal Requirement"	means any Act of Parliament, regulation, Licence or Directive of a Competent Authority;
"Licence"	means any one or more as appropriate of the Licence s granted pursuant to Section 6 of the Act ;
"Mandatory Works Provisions"	 means, with respect to all and any works required to be carried out to an FFR Unit to enable the same to provide Firm Frequency Response, any or all of the following provisions relating to such works as may be required by National Grid (at its sole discretion) to be included in a Framework Agreement:- (1) a complete description of the programme of such works; (2) a suitable milestone schedule for the carrying out, completion and commissioning of such works, to commence upon formation of any FFR Contract and to complete no later than the Target Commencement Date; and (3) provisions for the conduct of testing (or sequence of testing) and independent witness testing thereof to validate such commissioning, including a technical specification for such testing (or sequence of

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	testing) to enable validation of the
	mandatory requirements set out in sub- paragraph 2.2.2;
"Mandatory Services Agreements"	has the meaning attributed to it in the CUSC;
"Maximum Available Demand"	means, in respect of a Contracted FFR Unit providing High Frequency Response by automatic increase of Demand , the amount set out and specified as such in the Framework Agreement for the Frequency Trigger ;
"Maximum Available Output"	means, in respect of a Contracted FFR Unit providing low Frequency Response by automatic increase in Generation , the amount set out and specified as such in the Framework Agreement for the Frequency Trigger ;
"Maximum Export Limit"	the meaning attributed to it in the Grid Code;
"Maximum Part Load Point"	means the Part Load Point specified as such in the FFR Tender , being less than or equal to the Minimum MEL ;
"Maximum Response Period"	means the period (if any) specified in the FFR Tender comprising part of the Utilisation Restrictions ;
"Maximum SEL"	means the maximum prevailing Stable Export Limit in FFR Service Windows specified in the FFR Tender ;
"Minimum MEL"	means the minimum prevailing Maximum Export Limit in FFR Service Windows specified in the FFR Tender;
"Minimum Part Load Point"	means the Part Load Point specified as such in the FFR Tender , being greater than or equal to the Maximum SEL ;
"Mode D Frequency Response"	has the meaning attributed to it in sub-paragraph $\frac{3.3.2(b)3.3.2(a)}{3.3.2(a)}$;
"Monitored Frequency Sensitive Load Sample"	has the meaning attributed to it in sub-paragraph $3.3.13.13.13.13.2$ (a);
"Monthly Statement"	means the Provisional Monthly Statement and the Final Monthly Settlement ;
"Multiple Month Tender"	means an FFR Tender comprising two or more, but less than thirty, consecutive tendered Service Months ;
"National Electricity Transmission System"	has the meaning attributed to it in the CUSC;
"National Grid"	means National Grid Electricity System Operator Limited ("NGESO"), a company registered with number 11014226 and whose registered office is situated at 1-3 Strand, London, WC2N 5EH, which expression shall include its permitted successors and/or assigns;

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"Non-Balancing Mechanism Participant"	means an FFR Provider providing Firm Frequency
	Response from an FFR Unit comprising one or more Sites ;
"Non-Business Day"	means a Day which is not a Business Day ;
"Non-Embedded Customer"	means a Customer , except for a Public Distribution System Operator , receiving electricity direct from the National Electricity Transmission System irrespective of from whom it is supplied;
"On-Site Monitoring Equipment"	means all and any monitoring and/or metering equipment located at the Premises in respect of any Site ;
"Operational Metering Equipment"	means meters, instrument transformers (both voltage and current), transducers metering protection equipment including alarms circuitry and their associated outstations as may be necessary for the purposes of the Grid Code CC 6.5.6 and the corresponding provision of the relevant Distribution Code ;
"Optional Window"	has the meaning attributed to it in the STOR Standard Contract Terms ;
"Outline Change Proposal"	means a proposal prepared by National Grid for the purposes of paragraph 5.1;
"Part 1 System Ancillary Services"	has the meaning attributed to it in the Grid Code;
"Part 2 System Ancillary Services"	has the meaning attributed to it in the Grid Code;
"Parties"	means National Grid of the one part and its counterparty to a Framework Agreement of the other part, and " Party " shall be construed accordingly;
"Part Load Point"	means, in respect of an FFR Unit , either (1) an operating level from which dynamic Response is delivered or (2) an operating level more particularly specified in the Framework Agreement either (i) from which Automatic Response is delivered or (ii) to which Demand or Generation (as the case may be) is respectively reduced or increased by way of delivery of Automatic Response ;
"Party Liable"	has the meaning attributed to it in sub-paragraph 5.3.1;
"Performance Factor"	has the meaning attributed to it in sub-paragraph $3.13.1(d) 3.13.2(e)$;
"Physical Notification"	has the meaning attributed to it in the Grid Code ;
"Plant"	means fixed and movable items used in the Generation and/or supply and/or transmission and/or distribution of electricity other than Apparatus ;
"Power Station"	means an installation comprising one or more Generating Units (even where separately sited) owned or controlled by the same FFR Provider which

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	may reasonably be considered as being managed as one Power Station ;
"Premises"	means the land and buildings of which a BM Unit or Site forms part, which may include a Power Station ;
"Primary Response"	has the meaning attributed to it in the Grid Code;
"Production BM Unit"	has the meaning attributed to it in the BSC ;
"Proceedings"	has the meaning attributed to it in sub-paragraph $5.10.15.10.15.10.1$;
"Proposed Implementation Date"	means the date from which National Grid proposes that amendments to this Document described in an Outline Change Proposal are to become effective, being either:- (1) the date specified in such Outline Change Proposal being a date that is not less than 6 calendar months after the date that such Outline Change Proposal is submitted; or (2) in the case of an Outline Change Proposal required as a result of a Proposed Legal Requirement or a Change in Law, the date that the relevant Change in Law is currently expected by National Grid to come into effect;
"Proposed Legal Requirement"	means a Legal Requirement that has been proposed by a Competent Authority , including without limitation by means of a consultation, white paper, green paper or parliamentary bill, but which has not yet come into effect as a Change in Law ;
"Provisional Monthly Statement"	has the meaning attributed to it in sub-paragraph 5.2.1;
"Pro-Forma Sheet"	means the pack of documents entitled "Firm Frequency Response - Pro-Forma Sheets" issued from time to time by National Grid;
"Public Distribution System Operator"	has the meaning attributed to it in the CUSC;
"Qualifying Change in Law"	means a Change in Law which principally affects or principally relates to National Grid in its capacity as GBSO and/or the procurement of Firm Frequency Response or Balancing Services generally;
"Reactive Power"	has the meaning attributed to it in the Grid Code;
"Reduced Availability"	has the meaning attributed to it in sub-paragraph $3.2.83.2.83.2.4$;
"Relay"	means an electrical measuring relay intended to operate when its characteristic quantity (Frequency) reaches the relay setting by an increase or decrease (as the case may be) in Frequency together with the associated and supporting equipment thereto;

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"Relevant Frequency Incident"	has the meaning attributed to it in sub-paragraph 3.13.3(a);
"Remote Transmission Assets"	means any Plant and Apparatus or meters owned by National Grid which (a) are embedded in a Distribution System or a User System and which are not directly connected by Plant and/or Apparatus owned by National Grid to a sub-station owned by National Grid and (b) are by agreement between National Grid and such Public Distribution System Operator or User under the direction and control of such Public Distribution System Operator or User ;
"Reproving Test"	means any or all of the tests comprised within a Firm FFR Pre-Qualification Assessment as may be specified by National Grid pursuant to Section 4;
"Response"	has the meaning attributed to it in the CUSC and, following the acceptance of an FFR Tender in respect of Additional Response , " Response " shall mean the aggregate of the Initial Response and the Additional Response ;
"Response Energy Payment"	has the meaning attributed to it in sub-paragraph 3.5.2;
"Retired FFR Unit"	has the meaning attributed to it in sub-paragraph 3.7.1;
"Sample Period"	has the meaning attributed to it in sub-paragraph $3.3.13.13.13.13.2$ (f);
"Secondary Response"	has the meaning attributed to it in the Grid Code;
"Secretary of State"	has the meaning attributed to it in the Act;
"Service Months"	the period comprising a single whole calendar month or each of two or more consecutive calendar months;
"Service Term"	the period comprising the tendered Service Months;
"Settlement Period"	means a period of 30 minutes ending on the hour or half hour in each hour during a Day ;
"Single Month Tender"	means an FFR Tender comprising a single tendered Service Month ;
"Site"	means a Generating Unit and/or other Plant and Apparatus not established and registered by the FFR Provider as BM Unit(s) under and in accordance with the Balancing and Settlement Code;
"Special Condition"	means such Special Condition as may from time to time be described as such and specified in a Firm Frequency Response for the purposes of sub- paragraphs 1.1.3 and 5.1.13;
"STTEC"	has the meaning attributed to it in the CUSC;
"Stable Export Limit"	has the meaning attributed to it in the Grid Code;

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"Station Demand"	has the meaning attributed to it in the CUSC;
"Steam Unit"	has the meaning attributed to it in the CUSC;
"Substitute FFR Unit"	has the meaning attributed to it in sub-paragraph 3.7.1;
"Sub-Site"	means a Site comprising Plant and/or Apparatus that forms part of an FFR Unit described in the Framework Agreement ;
"Supplier BM Unit"	has the meaning attributed to it in the BSC ;
"System"	means any User System or the National Electricity Transmission System as the case may be;
"System Ancillary Services"	means Part 1 System Ancillary Services and Part 2 System Ancillary Services;
"Target Commencement Date"	means the date of the commencement of the tendered Service Term in respect of an FFR Contract relating to a Contracted FFR Unit which is the subject of Mandatory Works Provisions;
"Target Frequency"	has the meaning attributed to it in the CUSC;
"Tender Assessment Principles"	means the principles from time to time published by National Grid for the purposes of this Document ;
"Tendered Service Parameters"	means the data tendered by the FFR Provider as specified in sub-paragraph 2.4.1;
"Transmission Entry Capacity"	has the meaning attributed to it in the CUSC;
"Transmission Licence"	means the Licence granted to National Grid under Section 6(1)(b) of the Act ;
"User"	means a person who is party to the CUSC Framework Agreement other than National Grid ;
"User System"	 means any System owned or operated by a User comprising:- Generating Units; and/or Distribution Systems (and/or other Systems consisting (wholly or mainly) of electric lines which are owned or operated by a person other than a Public Distribution System Operator); and Plant and/or Apparatus connecting: Generating Units and/or Distribution Systems (and/or other Systems consisting (wholly or mainly) of electric lines which are owned or operated by a person other than a Public Distribution Systems (and/or other Systems consisting (wholly or mainly) of electric lines which are owned or operated by a person other than a Public Distribution System Operator); or Mon-Embedded Customers; to the National Electricity Transmission System or to the relevant other User System, as the case may be, including any Remote Transmission Assets operated by such User or other person and any Plant and/or Apparatus and meters owned or operated by

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	the User or other person in connection with the distribution of electricity but does not include any part of the National Electricity Transmission System;
"Utilisation Restrictions"	means the restrictions on utilisation of Firm Frequency Response (if any) specified in an FFR Tender ;
"Value Added Tax"	means Value Added Tax as defined by the Value Added Tax Act 1994 and any modification or re- enactment thereof and any new tax of a similar nature;
"Working Day"	means Monday to Friday inclusive but excluding Bank Holiday s.