

Public

All Recipients of the Serviced Grid Code

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THE SERVICED GRID CODE – ISSUE 6 REVISION 45

INCLUSION OF REVISED SECTION

- Glossary & Definitions
- Operating Code 6
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- Governance Rules

SUMMARY OF CHANGES

These changes arise from the implementation of: [GC0176: Introduction of Demand Control Rotation Protocol within Operating Code 6 of the Grid Code.](#)

Many thanks,

Code Administrator

National Energy System Operator

THE GRID CODE

ISSUE 6

REVISION 45

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GLOSSARY & DEFINITIONS

(GD)

GD.1

In the Grid Code the following words and expressions shall, unless the subject matter or context otherwise requires or is inconsistent therewith, bear the following meanings:

Access Group	A group of Connection Points within which a User declares under the Planning Code (a) An interconnection and/or (b) A need to redistribute Demand between those Connection Points either pre-fault or post-fault Where a single Connection Point does not form part of an Access Group in accordance with the above, that single Connection Point shall be considered to be an Access Group in its own right.
Access Period	A period of time in respect of which each Transmission Interface Circuit is to be assessed as whether or not it is capable of being maintained as derived in accordance with PC.A.4.1.4. The period shall commence and end on specified calendar weeks.
Act	The Electricity Act 1989.
Activation Schedule(s)	Schedule(s) of detailed instructions sent by The Company to Network Operators which includes the designated identifier for each of the Load Blocks that are to be disconnected and reconnected and the timings for doing so.
Active Control Based Droop Power	The Active Control Based Power output supplied by a Grid Forming Plant through controlled means (be it manual or automatic). For GBGF-I this is equivalent to a Synchronous Generating Unit with a traditional governor coupled to its prime mover. Active Control Based Droop Power is used by The Company to control System Frequency changes through the instruction of Primary Response and Secondary Response.

Active Control Based Power	The Active Power output supplied by a Grid Forming Plant through controlled means (be it manual or automatic) of the positive phase sequence Root Mean Square Active Power produced at fundamental System Frequency by the control system of a Grid Forming Unit. For GBGF-I, this is equivalent to a Synchronous Generating Unit with a traditional governor coupled to its prime mover. Active Control Based Power includes Active Power changes that results from a change to the Grid Forming Plant Owners available set points that have a 5 Hz limit on the bandwidth of the provided response. Active Control Based Power also includes Active Power components produced by the normal operation of a Grid Forming Plant that comply with the Engineering Recommendation P28 limits. These Active Power components do not have a 5 Hz limit on the bandwidth of the provided response. Active Control Based Power does not include Active Power components proportional to System Frequency, slip or deviation that provide damping power to emulate the natural damping function provided by a real Synchronous Generating Unit.
Active Damping Power	The Active Power naturally injected or absorbed by a Grid Forming Plant to reduce Active Power oscillations in the Total System. More specifically, Active Damping Power is the damped response of a Grid Forming Plant to an oscillation between the voltage at the Grid Entry Point or User System Entry Point and the voltage of the Internal Voltage Source of the Grid Forming Plant. For the avoidance of doubt, Active Damping Power is an inherent capability of a Grid Forming Plant that starts to respond naturally, within less than 5ms to low frequency oscillations in the System Frequency.
Active Energy	The electrical energy produced, flowing or supplied by an electric circuit during a time interval, being the integral with respect to time of the instantaneous power, measured in units of watt-hours or standard multiples thereof, ie: 1000 Wh = 1 kWh 1000 kWh = 1 MWh 1000 MWh = 1 GWh 1000 GWh = 1 TWh

Active Frequency Response Power	The injection or absorption of Active Power by a Grid Forming Plant to or from the Total System during a deviation of the System Frequency away from the Target Frequency. For a GBGF-I this is very similar to Primary Response but with a response time to achieve the declared service capability (which could be the Maximum Capacity or Registered Capacity) within 1 second. For GBGF-I this can rapidly inject or absorb Active Power in addition to the phase-based Active Inertia Power to provide a system with desirable NFP plot characteristics. Active Frequency Response Power can be produced by any viable control technology.
Active Inertia Power	The injection or absorption of Active Power by a Grid Forming Plant to or from the Total System during a System Frequency change. The transient injection or absorption of Active Power from a Grid Forming Plant to the Total System as a result of the ROCOF value at the Grid Entry Point or User System Entry Point. This requires a sufficient energy storage capacity of the Grid Forming Plant to meet the Grid Forming Capability requirements specified in ECC.6.3.19. For the avoidance of doubt, this includes the rotational inertial energy of the complete drive train of a Synchronous Generating Unit. Active Inertia Power is an inherent capability of a Grid Forming Plant to respond naturally, within less than 5 ms, to changes in the System Frequency. For the avoidance of doubt, the Active Inertia Power has a slower frequency response compared with Active Phase Jump Power.
Active Phase Jump Power	The transient injection or absorption of Active Power from a Grid Forming Plant to the Total System as a result of changes in the phase angle between the Internal Voltage Source of the Grid Forming Plant and the Grid Entry Point or User System Entry Point. In the event of a disturbance or fault on the Total System, a Grid Forming Plant will instantaneously (within 5 ms) inject or absorb Active Phase Jump Power to the Total System as a result of the phase angle change. For GBGF-I as a minimum value this is up to the Phase Jump Angle Limit Power. Active Phase Jump Power is an inherent capability of a Grid Forming Plant that starts to respond naturally, within less than 5 ms and can have frequency components of over 1000 Hz.

Active Power	The product of voltage and the in-phase component of alternating current measured in units of watts and standard multiples thereof, ie: 1000 Watts = 1 kW 1000 kW = 1 MW 1000 MW = 1 GW 1000 GW = 1 TW
Active ROCOF Response Power	The Active Inertia Power developed from a Grid Forming Plant plus the Active Frequency Response Power that can be supplied by a Grid Forming Plant when subject to a rate of change of the System Frequency .
Additional BM Unit	Has the meaning as set out in the BSC
Affiliate	In relation to any person, any holding company or subsidiary of such person or any subsidiary of a holding company of such person, in each case within the meaning of Section 736, 736A and 736B of the Companies Act 1985 as substituted by section 144 of the Companies Act 1989 and, if that latter section is not in force at the Transfer Date , as if such section were in force at such date.
AF Rules	Has the meaning given to “allocation framework” in section 13(2) of the Energy Act 2013.
Agency	As defined in the ESO Licence .
Aggregator	A BM Participant who controls one or more Additional BM Units or Secondary BM Units .
Aggregated Energy Source	The aggregation of Energy Sources as defined in PC.G.8.1.
Aggregator Impact Matrix	Defined for an Additional BM Unit or a Secondary BM Unit . Provides data allowing The Company to model the result of a Bid-Offer Acceptance on each of the Grid Supply Points within the GSP Group over which the Additional BM Unit or Secondary BM Unit is defined.
Alternate Member	Shall mean an alternate member for the Panel Members elected or appointed in accordance with this GR.7.2(a) or (b).
Anchor	Plant , owned and operated by a Restoration Contractor which can Start-Up from Shutdown and energise a part of the Total System upon instruction from The Company or a Network Operator or a relevant Transmission Licensee within a defined time period, without an external electrical power supply from the Total System .
Anchor DC Converter Test	A test carried out by an Anchor DC Converter Owner on an Anchor DC Converter while the Anchor DC Converter is disconnected from all external electrical power supplies from the Total System .
Anchor Generating Unit Test	A test carried out on an Anchor Generating Unit or a CCGT unit or a Power Generating Module , as the case may be, at an Anchor Power Station while the Anchor Power Station remains energised from the Total System .

Anchor HVDC System Test	A test carried out by an Anchor HVDC System Owner while the Anchor HVDC System is disconnected from all external electrical power supplies from the Total System .
Anchor Plant Capability	The ability of a Restoration Contractor's Plant to Start-Up from Shutdown and to energise and maintain a part of the Total System upon instruction from The Company or Relevant Transmission Licensee (in Scotland) or relevant Network Operator , within a defined time period, without an external electrical power supply from the Total System . In the case of a Local Joint Restoration Plan the defined period of time is within 2 hours of an instruction from The Company or Relevant Transmission Licensee . In the case of a Distribution Restoration Zone Plan , the defined period of time is within 8 hours of an instruction from relevant Network Operator .
Anchor Plant Test	A test conducted on Plant to confirm it is capable of meeting the requirements of an Anchor Restoration Contract .
Anchor Power Station Test	A test carried out by an Anchor Generator at an Anchor Power Station while that Anchor Power Station is disconnected from all external electrical power supplies from the Total System .
Anchor Restoration Contract	In the case of a Local Joint Restoration Plan or Offshore Local Joint Restoration Plan , a contract between The Company and an Anchor Restoration Contractor for the provision of an Anchor Plant Capability . In the case of a Distribution Restoration Zone Plan is an agreement between The Company and relevant Network Operator and Anchor Restoration Contractor for the provision of an Anchor Plant Capability .
Anchor Restoration Contractor	A Restoration Contractor with an Anchor Restoration Contract .
Anchor Plant Unit Test	A test carried out on a Generating Unit or a CCGT Unit or a Power Generating Module , or a HVDC System or a DC Converter as the case may be, at the site of an Anchor Plant while the Anchor Plant is supplied from all external power supplies.
Ancillary Service	A System Ancillary Service and/or a Commercial Ancillary Service , as the case may be. An Ancillary Service may include one or more Demand Response Services .
Ancillary Services Agreement	An agreement between a User and The Company for the payment by The Company to that User in respect of the provision by such User of Ancillary Services .
Annual Average Cold Spell Conditions or ACS Conditions	A particular combination of weather elements which gives rise to a level of peak Demand within a Financial Year which has a 50% chance of being exceeded as a result of weather variation alone.
Apparatus	Other than in OC8 , means all equipment in which electrical conductors are used, supported or of which they may form a part. It includes Users' equipment which imposes Demand on the System . In OC8 , it means High Voltage electrical circuits forming part of a System on which Safety Precautions may be applied to allow work and/or testing to be carried out on a System .

Apparent Power	The product of voltage and of alternating current measured in units of voltamperes and standard multiples thereof, ie: 1000 VA = 1 kVA 1000 kVA = 1 MVA
Approved Fast Track Proposal	Has the meaning given in GR.26.7, provided that no objection is received pursuant to GR.26.12.
Approved Grid Code Self-Governance Proposal	Has the meaning given in GR.24.10.
Approved Modification	Has the meaning given in GR.22.7
Assimilated Law	Has the same meaning as that given by section 6(7) of the European Union (Withdrawal) Act 2018
Authorised Certifier	An entity that issues Equipment Certificates and Power Generating Module Documents and whose accreditation is given by the United Kingdom Accreditation Service or such other body as may be established from time to time to carry out the function of accreditation.
Authorised Electricity Operator	Any person (other than The Company) who is authorised under the Act to generate, participate in the transmission of, distribute or supply electricity which shall include any Interconnector Owner or Interconnector User .
Authority-Led Modification	A Grid Code Modification Proposal in respect of a Significant Code Review , raised by the Authority pursuant to GR.17
Authority-Led Modification Report	Has the meaning given in GR.17.4.
Authority for Access	An authority which grants the holder the right to unaccompanied access to sites containing exposed HV conductors.
Authority Guidance on Code Modification Prioritisation	Authority Guidance on Code Modification Prioritisation means the guidance published by the Authority from time to time on code modification prioritisation.
Authority, The	The Authority established by section 1 (1) of the Utilities Act 2000.
Automatic Voltage Regulator or AVR	The continuously acting automatic equipment controlling the terminal voltage of a Synchronous Generating Unit or Synchronous Power Generating Module by comparing the actual terminal voltage with a reference value and controlling by appropriate means the output of an Exciter , depending on the deviations.
Auxiliaries	Any item of Plant and/or Apparatus not directly a part of the boiler plant or Power Generating Module or Generating Unit or DC Converter or HVDC Equipment or Power Park Module , but required for the boiler plant's or Power Generating Module's or Generating Unit's or DC Converter's or HVDC Equipment's or Power Park Module's functional operation.

Auxiliary Diesel Engine	A diesel engine driving a Power Generating Module or Generating Unit which can supply a Unit Board or Station Board , which can start without an electrical power supply from outside the Power Station within which it is situated.
Auxiliary Energy Supplies	An electricity supply (which could be derived from an Auxiliary Diesel Engine or Auxiliary Gas Turbine or other source of energy) that is necessary to power the auxiliary and ancillary equipment on which a Power Generating Module or HVDC System or DC Converter or other item of Plant relies for it to be capable of generating Active or Reactive Power and which is generally supplied via a Unit Board or Station Board , or equivalent. Auxiliary Energy Supplies must be available without an external electrical power supply from the Total System . Auxiliary Energy Supplies do not include the mains-independent light current supplies necessary to operate Critical Tools and Facilities .
Auxiliary Gas Turbine	A Gas Turbine Unit , which can supply a Unit Board or Station Board , which can start without an electrical power supply from outside the Power Station within which it is situated.
Average Conditions	That combination of weather elements within a period of time which is the average of the observed values of those weather elements during equivalent periods over many years (sometimes referred to as normal weather).
Back-Up Protection	A Protection system which will operate when a system fault is not cleared by other Protection .
Balancing and Settlement Code or BSC	The code of that title as from time to time amended.
Balancing Code or BC	That portion of the Grid Code which specifies the Balancing Mechanism process.
Balancing Mechanism	Has the meaning set out in the ESO Licence .
Balancing Mechanism Reporting Agent or BMRA	Has the meaning set out in the BSC .
Balancing Mechanism Reporting Service or BMRS	Has the meaning set out in the BSC .
Balancing Principles Statement	A statement prepared by The Company in accordance with condition C9 of the ESO Licence .
Balancing Mechanism Window Period	Has the meaning set out in the BSC .
Baseline Forecast	Has the meaning given to the term 'baseline forecast' in Section G of the BSC .
Bid Acceptance	An acceptance by a BM Unit of a Bid-Offer Acceptance to decrease its export onto, or increase its import from, the National Electricity Transmission System , where in this context import and export are as defined in the BSC .

Bid-Offer Acceptance	(a) A communication issued by The Company in accordance with BC2.7; or (b) an Emergency Instruction to the extent provided for in BC2.9.2.3.
Bid-Offer Data	Has the meaning set out in the BSC .
Bilateral Agreement	Has the meaning set out in the CUSC .
Bilateral Embedded Generation Agreement (BEGA)	Has the meaning set out in the CUSC .
Block Loading Capability	The Active Power step and the time between steps (from no load to Rated MW), which a Generating Unit or Power Generating Module or Power Park Module or HVDC System or DC Converter Station (including Plant and Apparatus owned and operated by a Restoration Contractor) can instantaneously supply without causing it to trip or go outside the Frequency range of 47.5 Hz – 52 Hz assuming the Plant is initially operating at a nominal System Frequency of 50 Hz (or an otherwise agreed Frequency range).
BM Participant	A person who is responsible for and controls one or more BM Units or where a Bilateral Agreement specifies that a User is required to be treated as a BM Participant for the purposes of the Grid Code. For the avoidance of doubt, it does not imply that they must be active in the Balancing Mechanism .
BM Unit	Has the meaning set out in the BSC , except that for the purposes of the Grid Code the reference to “Party” in the BSC shall be a reference to User .
BM Unit Data	The collection of parameters associated with each BM Unit , as described in Appendix 1 of BC1 .
Boiler Time Constant	Determined at Registered Capacity or Maximum Capacity (as applicable), the boiler time constant will be construed in accordance with the principles of the IEEE Committee Report "Dynamic Models for Steam and Hydro Turbines in Power System Studies" published in 1973 which apply to such phrase.
British Standards or BS	Those standards and specifications approved by the British Standards Institution.
BSCCo	Has the meaning set out in the BSC .
BSC Panel	Has meaning set out for “Panel” in the BSC .
Business Day	Any week day (other than a Saturday) on which banks are open for domestic business in the City of London.
Cancellation of National Electricity Transmission System Warning	The notification given to Users when a National Electricity Transmission System Warning is cancelled.

Capacity Market Documents	The Capacity Market Rules , The Electricity Capacity Regulations 2014 and any other Regulations made under Chapter 3 of Part 2 of the Energy Act 2013 which are in force from time to time.
Capacity Market Rules	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.
Cascade Hydro Scheme	Two or more hydro-electric Generating Units, owned or controlled by the same Generator, which are located in the same water catchment area and are at different ordnance datums and which depend upon a common source of water for their operation, known as: (a) Moriston (b) Killin (c) Garry (d) Conon (e) Clunie (f) Beaully which will comprise more than one Power Station.
Cascade Hydro Scheme Matrix	The matrix described in Appendix 1 to BC1 under the heading Cascade Hydro Scheme Matrix .
Category 1 Intertripping Scheme	A System to Generator Operational Intertripping Scheme arising from a Variation to Connection Design following a request from the relevant User which is consistent with the criteria specified in the Security and Quality of Supply Standard .
Category 2 Intertripping Scheme	A System to Generator Operational Intertripping Scheme which is:- (i) required to alleviate an overload on a circuit which connects the Group containing the User's Connection Site to the National Electricity Transmission System; and (ii) installed in accordance with the requirements of the planning criteria of the Security and Quality of Supply Standard in order that measures can be taken to permit maintenance access for each transmission circuit and for such measures to be economically justified, and the operation of which results in a reduction in Active Power on the overloaded circuits which connect the User's Connection Site to the rest of the National Electricity Transmission System which is equal to the reduction in Active Power from the Connection Site (once any system losses or third party system effects are discounted).
Category 3 Intertripping Scheme	A System to Generator Operational Intertripping Scheme which, where agreed by The Company and the User , is installed to alleviate an overload on, and as an alternative to, the reinforcement of a third party system, such as the Distribution System of a Public Distribution System Operator .

Category 4 Intertripping Scheme	A System to Generator Operational Intertripping Scheme installed to enable the disconnection of the Connection Site from the National Electricity Transmission System in a controlled and efficient manner in order to facilitate the timely restoration of the National Electricity Transmission System .
Caution Notice	A notice conveying a warning against interference with Safety Precautions , which shall be attached (or affixed) at all Points of Isolation .
CENELEC	European Committee for Electrotechnical Standardisation.
Citizens Advice	Means the National Association of Citizens Advice Bureaux.
Citizens Advice Scotland	Means the Scottish Association of Citizens Advice Bureaux.
CfD Counterparty	A person designated as a “CfD counterparty” under section 7(1) of the Energy Act 2013.
CfD Documents	The AF Rules , The Contracts for Difference (Allocation) Regulations 2014, The Contracts for Difference (Definition of Eligible Generator) Regulations 2014 and The Contracts for Difference (Electricity Supplier Obligations) Regulations 2014 and any other regulations made under Chapter 2 of Part 2 of the Energy Act 2013 which are in force from time to time.
CfD Settlement Services Provider	means any person: (i) appointed for the time being and from time to time by a CfD Counterparty; or (ii) who is designated by virtue of Section C1.2.1B of the Balancing and Settlement Code, in either case to carry out any of the CFD settlement activities (or any successor entity performing CFD settlement activities).
CCGT Module Matrix	The matrix described in Appendix 1 to BC1 under the heading CCGT Module Matrix .
CCGT Module Planning Matrix	A matrix in the form set out in Appendix 2 of OC2 showing the combination of CCGT Units within a CCGT Module which would be running in relation to any given MW output.
Closed Distribution System or CDSO	A distribution system classified as a Closed Distribution System by the Authority which distributes electricity within a geographically confined industrial, commercial or shared services site and does not supply household Customers , without prejudice to incidental use by a small number of households located within the area served by the System and with employment or similar associations with the owner of the System .

Common Information Model or CIM	An abstract information model that describes and organises electricity power system data. Such a model provides a standard way of representing assets owned and / or operated by relevant parties and facilitates the integration of independently developed power system modelling applications.
CIM Standard	A standard published by a standards body (e.g., IEC, BSI) which utilises CIM concepts. CIM Standards describe various facets of CIM and its use: the underlying information model, data exchange and serialisation.
CM Administrative Parties	The Secretary of State , the CM Settlement Body , and any CM Settlement Services Provider .
CM Settlement Body	The Electricity Settlements Company Ltd or such other person as may from time to time be appointed as Settlement Body under regulation 80 of the Electricity Capacity Regulations 2014.
CM Settlement Services Provider	Any person with whom the CM Settlement Body has entered into a contract to provide services to it in relation to the performance of its functions under the Capacity Market Documents .
Code Administration Code of Practice	Means the code of practice approved by the Authority and: (a) developed and maintained by the code administrators in existence from time to time; and (b) amended subject to the Authority's approval from time to time; and (c) re-published from time to time;
Code Administrator	Means The Company carrying out the role of Code Administrator in accordance with the General Conditions.
Combined Cycle Gas Turbine Module or CCGT Module	A collection of Generating Units (registered as a CCGT Module (which could be within a Power Generating Module) under the PC) comprising one or more Gas Turbine Units (or other gas based engine units) and one or more Steam Units where, in normal operation, the waste heat from the Gas Turbines is passed to the water/steam system of the associated Steam Unit or Steam Units and where the component units within the CCGT Module are directly connected by steam or hot gas lines which enable those units to contribute to the efficiency of the combined cycle operation of the CCGT Module .
Combined Cycle Gas Turbine Unit or CCGT Unit	A Generating Unit within a CCGT Module .
Commercial Ancillary Services	Ancillary Services , other than System Ancillary Services , utilised by The Company in operating the Total System if a User (or other person such as a Demand Response Provider) has agreed to provide them under an Ancillary Services Agreement or under a Bilateral Agreement with payment being dealt with under an Ancillary Services Agreement or in the case of Externally Interconnected System Operators or Interconnector Users , under any other agreement (and in the case of Externally Interconnected System Operators and Interconnector Users includes Ancillary Services equivalent to or similar to System Ancillary Services).

Commercial Boundary	Has the meaning set out in the CUSC
Committed Level	The expected Active Power output from a BM Unit after accepting a Bid- Offer Acceptance or RR Instruction or a combination of Bid-Offer Acceptances and RR Instructions .
Committed Project Planning Data	Data relating to a User Development once the offer for a CUSC Contract is accepted.
Common Collection Busbar	A busbar within a Power Park Module to which the higher voltage side of two or more Power Park Unit generator transformers are connected.
Competitively Appointed Transmission Licensee	A person granted a Transmission Licence (as defined in Section 6(1)b of the Act) to own and operate an Onshore Transmission System on the basis of competitive tendering undertaken pursuant to Section 6C of the Electricity Act 1989.
Competitively Appointed Transmission Licensee Interface Point	The electrical point of connection between a Transmission System owned by a Competitively Appointed Transmission Licensee and the assets of another Transmission Licensee .
Completion Date	Has the meaning set out in the Bilateral Agreement with each User to that term or in the absence of that term to such other term reflecting the date when a User is expected to connect to or start using the National Electricity Transmission System . In the case of an Embedded Medium Power Station or Embedded DC Converter Station or Embedded HVDC System having a similar meaning in relation to the Network Operator's System as set out in the Embedded Development Agreement .
Complex	A Connection Site together with the associated Power Station and/or Network Operator substation and/or associated Plant and/or Apparatus , as appropriate.
Compliance Processes or CP	That portion of the Grid Code which is identified as the Compliance Processes .

Compliance Statement	A statement completed by the relevant User confirming compliance with each of the relevant Grid Code provisions, and the supporting evidence in respect of such compliance, of its: Generating Unit(s); or, Power Generating Modules (including DC Connected Power Park Modules and/or Electricity Storage Modules); or, CCGT Module(s); or, Power Park Module(s); or, DC Converter(s); or HVDC Systems; or Plant and Apparatus at an EU Grid Supply Point owned or operated by a Network Operator; or Network Operator's entire distribution System where such Network Operator's distribution System comprises solely of Plant and Apparatus procured on or after 7 September 2018 and was connected to the National Electricity Transmission System on or after 18 August 2019. In this case, all connections to the National Electricity Transmission System would comprise only of EU Grid Supply Points; or Plant and Apparatus at an EU Grid Supply Point owned or operated by a Non-Embedded Customer where such Non-Embedded Customer is defined as an EU Code User; In the form provided by The Company to the relevant User or another format as agreed between the User and The Company.
Configuration 1 AC Connected Offshore Power Park Module	One or more Offshore Power Park Modules that are connected to an AC Offshore Transmission System and that AC Offshore Transmission System is connected to only one Onshore substation and which has one or more Transmission Interface Points .
Configuration 2 AC Connected Offshore Power Park Module	One or more Offshore Power Park Modules that are connected to a meshed AC Offshore Transmission System and that AC Offshore Transmission System is connected to two or more Onshore substations at its Transmission Interface Points .
Configuration 1 DC Connected Power Park Module	One or more DC Connected Power Park Modules that are connected to an HVDC System or Transmission DC Converter and that HVDC System or Transmission DC Converter is connected to only one Onshore substation and which has one or more Transmission Interface Points .
Configuration 2 DC Connected Power Park Module	One or more DC Connected Power Park Modules that are connected to an HVDC System or Transmission DC Converter and that HVDC System or Transmission DC Converter is connected to more than one Onshore substation at its Transmission Interface Points .
Connection Conditions or CC	That portion of the Grid Code which is identified as the Connection Conditions being applicable to GB Code Users .
Connection Entry Capacity	Has the meaning set out in the CUSC .

Connected Planning Data	Data which replaces data containing estimated values assumed for planning purposes by validated actual values and updated estimates for the future and by updated forecasts for Forecast Data items such as Demand .
Connection Point	A Grid Supply Point or Grid Entry Point , as the case may be.
Connection Site	A Transmission Site or User Site , as the case may be.
Construction Agreement	Has the meaning set out in the CUSC
Consumer Representative	Means the person appointed by the Citizens Advice or the Citizens Advice Scotland (or any successor body) representing all categories of customers, appointed in accordance with GR.4.2(b)
Contingency Reserve	The margin of generation over forecast Demand which is required in the period from 24 hours ahead down to real time to cover against uncertainties in Large Power Station availability and against both weather forecast and Demand forecast errors.
Control Based Reactive Power	The Reactive Power supplied by a Grid Forming Plant through controlled means based on operator adjustment selectable setpoints (these may be manual or automatic).
Control Calls	Telephone calls whose destination and/or origin is a Control Centre or Control Point , either from dedicated control desk telephone systems or dedicated telephone handsets, and which, for the purpose of Control Telephony , have the right to exercise priority over (ie. disconnect) a call of a lower status.
Control Centre	A location used for the purpose of control and operation of the National Electricity Transmission System or DC Converter Station owner's System or HVDC System Owner's System or a User System other than a Generator's System or an External System .
Control Engineer	A person nominated by the relevant party for the control of its Plant and Apparatus .
Control Person	The term used as an alternative to " Safety Co-ordinator " on the Site Responsibility Schedule only.
Control Phase	The Control Phase follows on from the Programming Phase and covers the period down to real time.

Control Point	The point from which:- (a) A Non-Embedded Customer's Plant and Apparatus is controlled; or (b) A BM Unit at a Large Power Station or at a Medium Power Station or representing a Cascade Hydro Scheme or with a Demand Capacity with a magnitude of: (i) 50 MW or more in NGET's Transmission Area; or (ii) 30 MW or more in SPT's Transmission Area; or (iii) 10 MW or more in SHETL's Transmission Area, (iv) 10 MW or more which is connected to an Offshore Transmission System is physically controlled by a BM Participant; or (c) In the case of any other BM Unit or Generating Unit (which could be part of a Power Generating Module), data submission is co-ordinated for a BM Participant and instructions are received from The Company, as the case may be. For a Generator, this will normally be at a Power Station but may be at an alternative location agreed with The Company. In the case of a DC Converter Station or HVDC System, the Control Point will be at a location agreed with The Company. In the case of a BM Unit of an Interconnector User, the Control Point will be the Control Centre of the relevant Externally Interconnected System Operator.
Control Telephony	The principal method by which a User's Responsible Engineer/Operator, the relevant Transmission Licensees' Control Engineers and The Company's Control Engineers speak to one another for the purposes of control of the Total System in both normal and emergency operating conditions.
Core Industry Document	As defined in the ESO Licence.
Core Industry Document Owner	In relation to a Core Industry Document, the body(ies) or entity(ies) responsible for the management and operation of procedures for making changes to such document

Critical Tools and Facilities	Apparatus and tools required in relation to System Restoration: a) In the case of The Company include, but are not limited to: i) Tools for operating and monitoring the Transmission System including but not limited to state estimation, the Balancing Mechanism, Load and System Frequency control, alarms, real time system operation and operational security analysis including off line transmission analysis; ii) The ability to control, protect and monitor transmission assets including switchgear, tap changers and other Transmission System equipment including where available auxiliary equipment and to ensure the safe operation of Plant and Apparatus and the safety of personnel; iii) Control Telephony systems as provided for in CC.6.5.1 – CC.6.5.5 and ECC.6.5.1 – ECC.6.5.5; iv) Operational telephony as provided for in STCP 04-5; and v) Tools and communications systems to facilitate cross border operations. b) In the case of Generators, HVDC System Owners, DC Converter Station Owners, Defence Service Providers and Restoration Contractors: i) Tools for monitoring relevant Plant and Apparatus; ii) The ability to control, protect and monitor their Plant and Apparatus necessary for System Restoration including as applicable primary Plant, switchgear, tap changers and other auxiliary equipment and to ensure the safe operation of Plant and personnel; and iii) Control Telephony as provided for in CC.6.5.1 – CC.6.5.5 and ECC.6.5.1 – ECC.6.5.5. c) In the case of BM Participants and Virtual Lead Parties who are not Generators, HVDC System Owners, DC Converter Station owners, Defence Service Providers or Restoration Contractors as provided for in item b) above: i) Tools for monitoring relevant Plant and Apparatus (excluding Plant and Apparatus not owned by the BM Participant or Virtual Lead Party); and ii) Control Telephony as provided for in CC.6.5.1 – CC.6.5.5 and ECC.6.5.1 – ECC.6.5.5 d) In the case of Network Operators: i) Control room Apparatus and tools for monitoring their System including but not limited to, alarms, real time system operation and operational security analysis including off line network analysis; ii) The ability to control, protect and monitor those assets necessary for System Restoration including switchgear, tap changers and other network equipment including where available auxiliary equipment and to ensure the safe operation of Plant and personnel; and iii) Control Telephony as provided for in CC.6.5.1 – CC.6.5.5 and ECC.6.5.1 – ECC.6.5.5. e) In the case of Non-Embedded Customers: i) Tools for monitoring their System including but not limited to, alarms and real time system operation;
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	ii) The ability to control, protect and monitor those assets necessary for System Restoration including switchgear, tap changers and other network equipment including where available auxiliary equipment and to ensure the safe operation of Plant and personnel; and iii) Control Telephony as provided for in CC.6.5.1 – CC.6.5.5 and ECC.6.5.1 – ECC.6.5.5.
CUSC	Has the meaning set out in the ESO Licence .
CUSC Contract	One or more of the following agreements as envisaged in condition E2 of the ESO Licence: (a) the CUSC Framework Agreement; (b) a Bilateral Agreement; (c) a Construction Agreement or a variation to an existing Bilateral Agreement and/or Construction Agreement;
CUSC Framework Agreement	Has the meaning set out in the ESO Licence .
CUSC Party	As defined in the ESO Licence and “CUSC Parties” shall be construed accordingly.
Customer	A person to whom electrical power is provided (whether or not they are the same person as the person who provides the electrical power).
Customer Demand Management	Reducing the supply of electricity to a Customer or disconnecting a Customer in a manner agreed for commercial purposes between a Supplier and its Customer .
Customer Demand Management Notification Level	The level above which a Supplier has to notify The Company of its proposed or achieved use of Customer Demand Management which is 12 MW in England and Wales and 5 MW in Scotland.
Customer Generating Plant	A Power Station or Generating Unit or Power Generating Module of a Customer to the extent that it operates the same exclusively to supply all or part of its own electricity requirements, and does not export electrical power to any part of the Total System .
Damping Factor (ζ)	The ratio of the actual damping to critical damping. For a GBGF-I the open loop phase angle, for an open loop gain of one, is measured from the systems Nichols Chart. This angle is used to define the system’s equivalent Damping Factor that is the same as the Damping Factor of a second order system with the same open loop phase angle. Alternatively, the Damping Factor refers to the damping of a specific oscillation mode that is associated with the second order system created by the power to angle transfer function as shown in Figure PC.A.5.8.1(a) and PCA.5.8.1(b).
Data Freeze Date	The date at which the Structural Data of a Network Operator’s Solved PSM reflects the Network Operator’s System .

Data Publisher	The person providing a reporting service, in relation to data which is submitted to the reporting service under OC2.3.2.3 or a Transmission Licensee , in relation to data which the Transmission Licensee is required to publish.
Data Registration Code or DRC	That portion of the Grid Code which is identified as the Data Registration Code .
Data Validation, Consistency and Defaulting Rules	The rules relating to validity and consistency of data, and default data to be applied, in relation to data submitted under the Balancing Codes , to be applied by The Company under the Grid Code as set out in the document "Data Validation, Consistency and Defaulting Rules" - Issue 8, dated 25 th January 2012. The document is available on The Company's website or upon request from The Company .
DC Connected Power Park Module	A Power Park Module that is connected to one or more HVDC Interface Points .
DC Converter	Any Onshore DC Converter or Offshore DC Converter as applicable to GB Code User's .
DC Converter Station	An installation comprising one or more Onshore DC Converters connecting a direct current interconnector: to the National Electricity Transmission System ; or, (if the installation has a rating of 50 MW or more) to a User System , and it shall form part of the External Interconnection to which it relates.
DC Network	All items of Plant and Apparatus connected together on the direct current side of a DC Converter or HVDC System .
DCUSA	The Distribution Connection and Use of System Agreement approved by the Authority and required to be maintained in force by each Electricity Distribution Licence holder.
Defence Service Provider	A User with a legal or contractual obligation to provide a service contributing to one or several measures of the System Defence Plan or a party with a contract to meet one or more measures of the System Defence Plan .
Defined Active Damping Power	The Active Damping Power supplied by a GBGF-I when it is operating at the Grid Oscillation Value defined in Table PC.A.5.8.2.
De-Load	The condition in which a Genset has reduced or is not delivering electrical power to the System to which it is Synchronised .
Δf	Deviation from Target Frequency .
Demand	The demand of MW and MVar of electricity (i.e. both Active and Reactive Power), unless otherwise stated.
Demand Aggregation	A process where one or more Demand Facilities or Closed Distribution Systems can be controlled by a Demand Response Provider either as a single facility or Closed Distribution System for the purposes of offering one or more Demand Response Services .

Demand Capacity	Has the meaning as set out in the BSC .
Demand Control	Any or all of the following methods of achieving a Demand reduction: (a) Customer voltage reduction initiated by Network Operators (other than following an instruction from The Company); (b) Customer Demand reduction by Disconnection initiated by Network Operators (other than following an instruction from The Company); (c) Demand reduction instructed by The Company; (d) automatic low Frequency Demand Disconnection; (e) emergency manual Demand Disconnection.
Demand Control Notification Level	The level above which a Network Operator has to notify The Company of its proposed or achieved use of Demand Control which is 12 MW in England and Wales and 5 MW in Scotland.
Demand Control Rotation Period	The period of time between The Company issuing a National Electricity Transmission System Notice – DCRP Actuation and eight hours after The Company issuing a National Electricity Transmission System Notice – DCRP Stand Down , unless otherwise agreed by The Company and the relevant Network Operator(s) .
Demand Control Rotation Protocol (DCRP)	An industry protocol that details an arrangement between The Company and Network Operators to manage shortfalls in Demand as outlined in OC6.9.
Demand Facility	A facility which consumes electrical energy and is connected at one or more Grid Supply Points to the National Electricity Transmission System or connection points to a Network Operator's System . A Network Operator's System and/or auxiliary supplies of a Power Generating Module do not constitute a Demand Facility .
Demand Facility Owner	A person who owns or operates one or more Demand Units within a Demand Facility . A Demand Facility Owner who owns or operates a Demand Facility which is directed connected to the Transmission System shall be treated as a Non-Embedded Customer .
Demand Response Active Power Control	Demand within a Demand Facility or Closed Distribution System that is available for modulation by The Company or Network Operator or Relevant Transmission Licensee , which results in an Active Power modification.
Demand Response Provider	A party (other than The Company) who owns, operates, controls or manages Main Plant and Apparatus (excluding storage equipment) which was first connected to the Total System on or after 18 August 2019 and who had placed Purchase Contracts for its Main Plant and Apparatus on or after 7 September 2018 or is the subject of a Substantial Modification on or after 18 August 2019 and has an agreement with The Company to provide a Demand Response Service(s) . The party may be one or more Customers , a Network Operator or Non-Embedded Customer or EU Code User contracting bilaterally with The Company for the provision of services, or may be a third party providing Demand Aggregation from many individual Customers .

Demand Response Reactive Power Control	A Demand Response Service derived from Reactive Power or Reactive Power compensation devices in a Demand Facility or Closed Distribution System that are available for modulation by The Company or Network Operator or Relevant Transmission Licensee .
Demand Response Transmission Constraint Management	A Demand Response Service derived from Demand within a Demand Facility or Closed Distribution System that is available for modulation by The Company or Network Operator or Relevant Transmission Licensee to manage transmission constraints within the System .
Demand Response Service	A Demand Response Service includes one of more of the following services: (a) Demand Response Active Power Control; (b) Demand Response Reactive Power Control; (c) Demand Response Transmission Constraint Management; (d) Demand Response System Frequency Control; (e) Demand Response Very Fast Active Power Control. The above Demand Response Services are not exclusive and do not preclude Demand Response Providers from negotiating other services for demand response capability with The Company. Where such services are negotiated they would still be treated as a Demand Response Service.
Demand Response Services Code (DRSC)	That portion of the Grid Code which is identified as the Demand Response Services Code being applicable to Demand Response Providers .
Demand Response System Frequency Control	A Demand Response Service derived from a Demand within one or more Demand Facilities or Closed Distribution Systems that is available for the reduction or increase in response to Frequency fluctuations, made by an autonomous response from those Demand Facilities or Closed Distribution Systems to diminish these fluctuations.
Demand Response Unit Document (DRUD)	A document, issued either by the Non-Embedded Customer , Demand Facility Owner or the CDSO to The Company or the Network Operator (as the case may be) for Demand Units with demand response and providing a Demand Response Service which confirms the compliance of the Demand Unit with the technical requirements set out in the Grid Code and provides the necessary data and statements, including a statement of compliance.
Demand Response Very Fast Active Power Control	A Demand Response Service derived from a Demand within a Demand Facility or Closed Distribution System that can be modulated very fast in response to a Frequency deviation, which results in a very fast Active Power modification.
Demand Unit	An indivisible set of installations containing equipment which can be actively controlled at one or more sites by a Demand Response Provider , Demand Facility Owner , CDSO or by a Non Embedded Customer , either individually or commonly as part of Demand Aggregation through a third party who has agreed to provide Demand Response Services .
Designated Information Exchange System	A facsimile machine or, as agreed between each User with respect to their Control Centre , Trading Point or Control Point and The Company , an Electronic Communication Platform that facilitates the exchange of information between a User and The Company .

Designed Minimum Operating Level	The output (in whole MW) below which a Genset or a DC Converter at a DC Converter Station (in any of its operating configurations) has no High Frequency Response capability.
De-Synchronise	(a) The act of taking a Power Generating Module (including a DC Connected Power Park Module), Generating Unit, Power Park Module, HVDC System or DC Converter off a System to which it has been Synchronised, by opening any connecting circuit breaker; or (b) The act of ceasing to consume electricity at an importing BM Unit; and the term "De-Synchronising" shall be construed accordingly.
De-synchronised Island Procedure	A formal procedure as set out in OC9.5.4 for the purpose of Synchronising Power Islands
Detailed Planning Data	Detailed additional data which The Company requires under the PC in support of Standard Planning Data , comprising DPD I and DPD II .
Detailed Planning Data Category I or DPD I	The Detailed Planning Data categorised as such in the DRC , and submitted in accordance with PC.4.4.2 or PC.4.4.4 as applicable.
Detailed Planning Data Category II or DPD II	The Detailed Planning Data categorised as such in the DRC , and submitted in accordance with PC.4.4.2 or PC.4.4.4 as applicable.
Diagram Data	Data in a PSM enabling Structural Data to be displayed graphically, including a Single Line Diagram .
Disconnection	The physical separation of Users (or Customers) from the National Electricity Transmission System or a User System as the case may be.
Discrimination	The quality where a relay or protective system is enabled to pick out and cause to be disconnected only the faulty Apparatus .
Disputes Resolution Procedure	The procedure described in the CUSC relating to disputes resolution.
Distribution Code	The distribution code required to be drawn up by each Electricity Distribution Licence holder and approved by the Authority , as from time to time revised with the approval of the Authority .
Distribution Restoration Contract	An agreement between an Anchor Plant Owner or Top Up Restoration Contractor and The Company and a Network Operator under which the Anchor Restoration Contractor or Top Up Restoration Contractor , on instruction, provides a service to energise and/or contribute to the establishment of a Distribution Restoration Zone .

Distribution Restoration Zone	Part of a Network Operator's System which is capable of being energised by an Anchor Plant following a Total System Shutdown or Partial System Shutdown . The Distribution Restoration Zone shall contain an Anchor Plant and may also include one or more Top Up Restoration Contractor's Plants . The Distribution Restoration Zone primarily comprises part of the Network Operator's System but may include relevant parts of the National Electricity Transmission System in which case Relevant Transmission Licensees would be party to the Distribution Restoration Zone Plan .
Distribution Restoration Zone Control System (DRZCS)	A mains-independent automatic control and supervisory system which assesses the status and operational conditions of part of a Network Operator's System and where relevant, part of the Transmission System for the purposes of operating Restoration Contractor's Plant and Apparatus and/or modulating Restoration Contractors' Demand in addition to operating items of the Network Operator's Plant and Apparatus and relevant Transmission Licensee's Plant and Apparatus for the purposes of establishing and operating a Distribution Restoration Zone .
Distribution Restoration Zone Plan	A plan produced and agreed by a Network Operator , The Company , Restoration Contractors and in certain situations a Transmission Licensees under OC9.4.7.7, detailing the agreed method and procedure by which a Network Operator will instruct a Restoration Contractor with an Anchor Plant to energise, part of a Network Operator's System Total System within 8 hours of that instruction, and subsequently meet complementary blocks of local Demand so as to form a Power Island . A Distribution Restoration Zone Plan may require the use of Top Up Restoration Plant . A Distribution Restoration Zone Plan is distinct from and falls outside the provisions of a Local Joint Restoration Plan .
Droop	The ratio of the per unit steady state change in speed (or Frequency), to the per unit steady state change in Active Power output. Whilst not mandatory, it is often common practice to express Droop in percentage terms.
Dynamic Parameters	Those parameters listed in Appendix 1 to BC1 under the heading BM Unit Data – Dynamic Parameters .
Dynamic Reactive Compensation Equipment	Plant and Apparatus capable of injecting or absorbing Reactive Power in a controlled manner which includes but is not limited to Synchronous Compensators, Static Var Compensators (SVC), or STATCOM devices.
E&W Offshore Transmission System	An Offshore Transmission System with an Interface Point in England and Wales.
E&W Offshore Transmission Licensee	A person who owns or operates an E&W Offshore Transmission System pursuant to a Transmission Licence .
E&W Transmission System	Collectively NGET's Transmission System , any Competitively Appointed Transmission Licensee's Transmission System with Plant and Apparatus located in NGET's Transmission Area and any E&W Offshore Transmission Systems .

E&W User	A User in England and Wales or any Offshore User who owns or operates Plant and/or Apparatus connected (or which will at the OTSUA Transfer Time be connected) to an E&W Offshore Transmission System .
Earth Fault Factor	At a selected location of a three-phase System (generally the point of installation of equipment) and for a given System configuration, the ratio of the highest root mean square phase-to-earth power Frequency voltage on a sound phase during a fault to earth (affecting one or more phases at any point) to the root mean square phase-to-earth power Frequency voltage which would be obtained at the selected location without the fault.
Earthing	A way of providing a connection between conductors and earth by an Earthing Device which is either: (a) Immobilised and Locked in the earthing position. Where the Earthing Device is Locked with a Safety Key, the Safety Key must be secured in a Key Safe and the Key Safe Key must be, where reasonably practicable, given to the authorised site representative of the Requesting Safety Co-ordinator and is to be retained in safe custody. Where not reasonably practicable the Key Safe Key must be retained by the authorised site representative of the Implementing Safety Co-ordinator in safe custody; or (b) maintained and/or secured in position by such other method which must be in accordance with the Local Safety Instructions of NGET or the Safety Rules of the Relevant Transmission Licensee or that User, as the case may be.
Earthing Device	A means of providing a connection between a conductor and earth being of adequate strength and capability.
Elected Panel Members	Shall mean the following Panel Members elected in accordance with GR4.2(a): (a) the representative of the Suppliers; (b) the representative of the Onshore Transmission Licensees; (c) the representative of the Offshore Transmission Licensees; and (d) the representatives of the Generators
Electrical Standard	A standard listed in the Annex to the General Conditions .
Electricity Balancing Regulation	as defined in the CUSC .
Electricity Council	That body set up under the Electricity Act, 1957.
Electricity Distribution Licence	The licence granted pursuant to Section 6(1) (c) of the Act .
Electricity Regulation	As defined in the ESO Licence .

Electricity Storage	The conversion of electrical energy into a form of energy which can be stored, the storing of that energy, and the subsequent reconversion of that energy back into electrical energy.
Electricity Storage Module	Is either one or more Synchronous Electricity Storage Unit(s) or Non-Synchronous Electricity Storage Unit(s) which could also be part of a Power Generating Module . For the avoidance of doubt, Non-Controllable Electricity Storage Equipment would not be considered to be classed as an Electricity Storage Module or as an Electricity Storage Unit .
Electricity Storage Unit	A Synchronous Electricity Storage Unit or Non-Synchronous Electricity Storage Unit .
Electricity Supply Industry Arbitration Association	The unincorporated members' club of that name formed inter alia to promote the efficient and economic operation of the procedure for the resolution of disputes within the electricity supply industry by means of arbitration or otherwise in accordance with its arbitration rules.
Electricity Supply Licence	The licence granted pursuant to Section 6(1) (d) of the Act .
Electricity System Operator Licence or ESO Licence	Means a licence granted or treated as granted under section 6(1)(da) of the Act .
Electricity System Restoration Standard	As defined in Special Condition 2.2 of The Company's Transmission Licence.
Electricity Ten Year Statement	A statement of network development information, prepared annually by The Company in accordance with the terms of the ESO Licence condition C12 for each of the nine succeeding financial years.
Electromagnetic Compatibility Level	Has the meaning set out in Engineering Recommendation G5 .
Electronic Communication Platform	An information exchange platform established, provided, and maintained by The Company that facilitates the exchange of information between a User and The Company .
Electronic Power Converter	Electrical Plant and Apparatus which uses switched solid state power electronic devices to produce a real voltage waveform, that has a fundamental component with harmonics.
Embedded	Having a direct connection to a User System or the System of any other User to which Customers and/or Power Stations are connected, such connection being either a direct connection or a connection via a busbar of another User or of a Relevant Transmission Licensee (but with no other connection to the National Electricity Transmission System).
Embedded Development	Has the meaning set out in PC.4.4.3(a).
Embedded Development Agreement	An agreement entered into between a Network Operator and an Embedded Person , identifying the relevant site of connection to the Network Operator's System and setting out other site specific details in relation to that use of the Network Operator's System .

Embedded Generation Control	Any or all of the following methods by which a Network Operator can achieve a reduction in the Active Power output of Embedded Power Stations to implement an instruction issued by The Company: (a) Embedded Generation De-energisation; or (b) where this is achievable in a suitable timescale to comply with an instruction, arranging to reduce the Active Power output of Embedded Power Stations or Embedded Generator Unit(s) connected to their System.
Embedded Generation Deenergisation	The de-energisation by Network Operators of one or more Embedded Power Stations or Embedded Generating Units from their System as part of an Embedded Generation Control action.
Embedded Customer Import	Import to a Customer's site Embedded in a Network Operator's System where the primary purpose is other than that of an Embedded Power Station. When establishing the primary purpose, the Network Operator will consider factors including: - the maximum export capacity relative to the maximum import capacity; - whether the Customer has a generation licence or licence exemption; and whether the Customer is categorised as having a demand connection or generation connection as defined in DCUSA Schedule 22.
Embedded Power Station Import	Import to a Customer's site Embedded in a Network Operator's System where the primary purpose of that site is wholly or mainly that of an Embedded Power Station. When establishing the primary purpose, the Network Operator will consider factors including: - the maximum export capacity relative to the maximum import capacity; - whether the Customer has a generation licence or licence exemption; and - whether the Customer is categorised as having a demand connection or generation connection as defined in DCUSA Schedule 22.
Embedded Power Station Export	Export from an Embedded Power Station .
Embedded Person	The party responsible for a Medium Power Station not subject to a Bilateral Agreement or DC Converter Station not subject to a Bilateral Agreement or HVDC System not subject to a Bilateral Agreement connected to or proposed to be connected to a Network Operator's System .
Emergency Deenergisation Instruction	An Emergency Instruction issued by The Company to De-Synchronise a Power Generating Module (including a DC Connected Power Park Module), Generating Unit , Power Park Module , HVDC System or DC Converter in circumstances specified in the CUSC .

Emergency Instruction	An instruction issued by The Company in emergency circumstances, pursuant to BC2.9, to the Control Point of a User . In the case of such instructions applicable to a BM Unit , it may require an action or response which is outside the Dynamic Parameters or Other Relevant Data , and may include an instruction to trip a Genset .
Emergency Response Team	A group constituted by the relevant government department for energy, containing representation from the UK government, the Authority , The Company , and impacted industry organisations that meets during an emergency situation to discuss the actions that shall collectively be taken to address the emergency situation.
EMR Administrative Parties	Has the meaning given to “administrative parties” in The Electricity Capacity Regulations 2014 and each CfD Counterparty and CfD Settlement Services Provider .
EMR Documents	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 (contracts for difference), Chapter 3 (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.
Energy Source	Any of the sources of energy listed in PC.G.8 used in the production of electricity.
Engineering Recommendations	The documents referred to as such and issued by the Energy Networks Association or the former Electricity Council.
Engineering Recommendation G5	Means Engineering Recommendation G5/5.
Energisation Operational Notification or EON	A notification (in respect of Plant and Apparatus (including OTSUA) which is directly connected to the National Electricity Transmission System) from The Company to a User confirming that the User can in accordance with the Bilateral Agreement and/or Construction Agreement , energise such User’s Plant and Apparatus (including OTSUA) specified in such notification.
Equipment Certificate	A document issued by an Authorised Certifier for equipment used by a Power Generating Module , Demand Unit , Network Operators System , Non-Embedded Customers System , Demand Facility or HVDC System . The Equipment Certificate defines the scope of its validity at a national level. For the purpose of replacing specific parts of the compliance process, the Equipment Certificate may include models or equivalent information that have been verified against actual test results.

Estimated Registered Data	Those items of Standard Planning Data and Detailed Planning Data which either upon connection will become Registered Data , or which for the purposes of the Plant and/or Apparatus concerned as at the date of submission are Registered Data , but in each case which for the nine succeeding Financial Years will be an estimate of what is expected.
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EU Code User	A User who is any of the following:- (a) A Generator in respect of a Power Generating Module (excluding a DC Connected Power Park Module) or OTSDUA (in respect of an AC Offshore Transmission System) whose Main Plant and Apparatus is connected to the System on or after 27 April 2019 and who concluded Purchase Contracts for its Main Plant and Apparatus on or after 17 May 2018. (b) A Generator in respect of any Type C or Type D Power Generating Module which is the subject of a Substantial Modification which is effective on or after 27 April 2019. (c) A Generator in respect of any DC Connected Power Park Module whose Main Plant and Apparatus is connected to the System on or after 8 September 2019 and who had concluded Purchase Contracts for its Main Plant and Apparatus on or after 28 September 2018. (d) A Generator in respect of any DC Connected Power Park Module which is the subject of a Substantial Modification which is effective on or after 8 September 2019. (e) An HVDC System Owner or OTSDUA (in respect of a DC Offshore Transmission System including a Transmission DC Converter) whose Main Plant and Apparatus is connected to the System on or after 8 September 2019 and who had concluded Purchase Contracts for its Main Plant and Apparatus on or after 28 September 2018. (f) An HVDC System Owner or OTSDUA (in respect of a DC Offshore Transmission System including a Transmission DC Converter) whose HVDC System or DC Offshore Transmission System including a Transmission DC Converter is the subject of a Substantial Modification on or after 8 September 2019. (g) A User which the Authority has determined should be considered as an EU Code User. (h) A Network Operator whose entire distribution System was first connected to the National Electricity Transmission System on or after 18 August 2019 and who had placed Purchase Contracts for its Main Plant and Apparatus in respect of its entire distribution System on or after 7 September 2018. For the avoidance of doubt, a Network Operator will be an EU Code User if its entire distribution System is connected to the National Electricity Transmission System at EU Grid Supply Points only. (i) A Non-Embedded Customer whose Main Plant and Apparatus at each EU Grid Supply Point was first connected to the National Electricity Transmission System on or after 18 August 2019 and who had placed Purchase Contracts for its Main Plant and Apparatus at each EU Grid Supply Point on or after 7 September 2018 or is the subject of a Substantial Modification on or after 18 August 2019. (j) A Storage User in respect of an Electricity Storage Module whose Main Plant and Apparatus is connected to the System on or after 20 May 2020 and who concluded Purchase
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	Contracts for its Main Plant and Apparatus on or after 20 May 2019.
EU Generator	A Generator or OTSDUA who is also an EU Code User .
EU Grid Supply Point	A Grid Supply Point where either:- (i) (a) the Network Operator or Non-Embedded Customer had placed Purchase Contracts for all of its Plant and Apparatus at that Grid Supply Point on or after 7 September 2018, and (b) All of the Network Operator's or Non-Embedded Customer's Plant and Apparatus at that Grid Supply Point was first connected to the Transmission System on or after 18 August 2019; or (ii) the Network Operator's or Non-Embedded Customer's Plant and Apparatus at a Grid Supply Point is the subject of a Substantial Modification which is effective on or after 18 August 2019.
EU Transparency Availability Data	Such relevant data as Customers and Generators are required to provide under Articles 7.1(a) and 7.1(b) and Articles 15.1(a), 15.1(b), 15.1(c), 15.1(d) of Assimilated Law (Commission Regulation (EU) 543/2013), and which also forms part of DRC Schedule 6 (Users' Outage Data).
European Compliance Processes or ECP	That portion of the Grid Code which is identified as the European Compliance Processes .
European Connection Conditions or ECC	That portion of the Grid Code which is identified as the European Connection Conditions being applicable to EU Code Users .
European Specification	A common technical specification, a British Standard implementing a European standard or a European technical approval. The terms "common technical specification", "European standard" and "European technical approval" shall have the meanings respectively ascribed to them in the Regulations .
Evaluation of Transmission Impact	As defined in the CUSC .
Event	An unscheduled or unplanned (although it may be anticipated) occurrence on, or relating to, a System (including Embedded Power Stations) including, without limiting that general description, faults, incidents and breakdowns and adverse weather conditions being experienced.
Exciter	The source of the electrical power providing the field current of a synchronous machine.
Excitation System	The equipment providing the field current of a machine, including all regulating and control elements, as well as field discharge or suppression equipment and protective devices.

Excitation System No-Load Negative Ceiling Voltage	The minimum value of direct voltage that the Excitation System is able to provide from its terminals when it is not loaded, which may be zero or a negative value.
Excitation System Nominal Response	Shall have the meaning ascribed to that term in IEC 34-16-1:1991 [equivalent to British Standard BS4999 Section 116.1: 1992]. The time interval applicable is the first half-second of excitation system voltage response.
Excitation System On-Load Positive Ceiling Voltage	Shall have the meaning ascribed to the term 'Excitation system on load ceiling voltage' in IEC 34-16-1:1991 [equivalent to British Standard BS4999 Section 116.1: 1992].
Excitation System No-Load Positive Ceiling Voltage	Shall have the meaning ascribed to the term 'Excitation system no load ceiling voltage' in IEC 34-16-1:1991 [equivalent to British Standard BS4999 Section 116.1: 1992].
Exemptable	Has the meaning set out in the CUSC .
Existing AGR Plant	The following nuclear advanced gas cooled reactor plant (which was commissioned and connected to the Total System at the Transfer Date):- (a) Dungeness B (b) Hinkley Point B (c) Heysham 1 (d) Heysham 2 (e) Hartlepool (f) Hunterston B (g) Torness
Existing AGR Plant Flexibility Limit	In respect of each Genset within each Existing AGR Plant which has a safety case enabling it to so operate, 8 (or such lower number which when added to the number of instances of reduction of output as instructed by The Company in relation to operation in Frequency Sensitive Mode totals 8) instances of flexibility in any calendar year (or such lower or greater number as may be agreed by the Nuclear Installations Inspectorate and notified to The Company) for the purpose of assisting in the period of low System NRAPM and/or low Localised NRAPM provided that in relation to each Generating Unit each change in output shall not be required to be to a level where the output of the reactor is less than 80% of the reactor thermal power limit (as notified to The Company and which corresponds to the limit of reactor thermal power as contained in the "Operating Rules" or "Identified Operating Instructions" forming part of the safety case agreed with the Nuclear Installations Inspectorate).
Existing Gas Cooled Reactor Plant	Both Existing Magnox Reactor Plant and Existing AGR Plant .

Existing Magnox Reactor Plant	The following nuclear gas cooled reactor plant (which was commissioned and connected to the Total System at the Transfer Date):- (a) Calder Hall (b) Chapelcross (c) Dungeness A (d) Hinkley Point A (e) Oldbury-on-Severn (f) Bradwell (g) Sizewell A (h) Wylfa
Export and Import Limits	Those parameters listed in Appendix 1 to BC1 under the heading BM Unit Data – Export and Import Limits .
External Interconnection	Apparatus for the transmission of electricity to or from the National Electricity Transmission System or a User System into or out of an External System . For the avoidance of doubt, a single External Interconnection may comprise several circuits operating in parallel.
External Interconnection Circuit	Plant or Apparatus which comprises a circuit and which operates in parallel with another circuit and which forms part of the External Interconnection .
Externally Interconnected System Operator or EISO	A person who operates an External System which is connected to the National Electricity Transmission System or a User System by an External Interconnection .
External System	In relation to an Externally Interconnected System Operator means the transmission or distribution system which it owns or operates which is located outside the National Electricity Transmission System Operator Area any Apparatus or Plant which connects that system to the External Interconnection and which is owned or operated by such Externally Interconnected System Operator .
Fast Load Block	A Load Block that can be disconnected by a Network Operator within the timescale set out in OC6.5.4 when instructed by The Company and which shall be designated by the Network Operator with a unique identifier 'R', 'S', 'T' or 'U' (in accordance with the Electricity Supply Emergency Code).
Fast Fault Current	A current delivered by a Power Park Module or HVDC System during and after a voltage deviation caused by an electrical fault within the System with the aim of identifying a fault by network Protection systems at the initial stage of the fault, supporting System voltage retention at a later stage of the fault and System voltage restoration after fault clearance.
Fault Current Interruption Time	The time interval from fault inception until the end of the break time of the circuit breaker (as declared by the manufacturers).

Fault Ride Through	The capability of Power Generating Modules (including DC Connected Power Park Modules) and HVDC Systems to be able to remain connected to the System and operate through periods of low voltage at the Grid Entry Point or User System Entry Point caused by secured faults.
Fast Start	A start by a Genset with a Fast Start Capability .
Fast Start Capability	The ability of a Genset to be Synchronised and Loaded up to full Load within 5 minutes.
Fast Track Criteria	A proposed Grid Code Modification Proposal that, if implemented, (a) would meet the Self-Governance Criteria; and (b) is properly a housekeeping modification required as a result of some error or factual change, including but not limited to: (i) updating names or addresses listed in the Grid Code; (ii) correcting any minor typographical errors; (iii) correcting formatting and consistency errors, such as paragraph numbering; or (iv) updating out of date references to other documents or paragraphs
Final-Balancing Compliance Notification	A notification from The Company to an EU Generator in respect of an Embedded Small Power Station with a Bilateral Embedded Generation Agreement with The Company, with a Completion Date on or after 05-09-2024, confirming that the Generator has demonstrated compliance with: (a) Engineering Recommendation G99 supported by the final operational notification from the relevant Network Operator, (b) the relevant sections of the Grid Code as applicable, and (c) the Bilateral Embedded Generation Agreement, and that all the items in the schedule of Unresolved Issues have been completed to The Company's satisfaction.
Final Generation Outage Programme	An outage programme as agreed by The Company with each Generator and each Interconnector Owner at various stages through the Operational Planning Phase and Programming Phase which does not commit the parties to abide by it, but which at various stages will be used as the basis on which National Electricity Transmission System outages will be planned.

Final Operational Notification or FON	A notification from The Company to a Generator or DC Converter Station owner or HVDC System Owner or Network Operator or Non-Embedded Customer confirming that the User has demonstrated compliance: (a) with the Grid Code, (or where they apply, that relevant derogations have been granted), and (b) where applicable, with Appendices F1 to F5 of the Bilateral Agreement, in each case in respect of the Plant and Apparatus specified in such notification.
Final Physical Notification Data	Has the meaning set out in the BSC .
Final Report	A report prepared by the Test Proposer at the conclusion of a System Test for submission to The Company (if it did not propose the System Test) and other members of the Test Panel .
Financial Year	As defined in the ESO Licence .
Fixed Proposed Implementation Date	The proposed date(s) for the implementation of a Grid Code Modification Proposal or Workgroup Alternative Grid Code Modification such date to be a specific date by reference to an assumed date by which a direction from the Authority approving the Grid Code Modification Proposal or Workgroup Alternative Grid Code Modification is required in order for the Grid Code Modification Proposal or any Workgroup Alternative Grid Code Modification , if it were approved, to be implemented by the proposed date.
Flicker Severity (Long Term)	A value derived from 12 successive measurements of Flicker Severity (Short Term) (over a two hour period) and a calculation of the cube root of the mean sum of the cubes of 12 individual measurements, as further set out in Engineering Recommendation P28 as current at the Transfer Date .
Flicker Severity (Short Term)	A measure of the visual severity of flicker derived from the time series output of a flickermeter over a 10 minute period and as such provides an indication of the risk of Customer complaints.
Forecast Data	Those items of Standard Planning Data and Detailed Planning Data which will always be forecast.
Frequency	The number of alternating current cycles per second (expressed in Hz) at which a System is running.
Frequency Containment Reserves (FCR)	means, in the context of Balancing Services , the Active Power reserves available to contain System Frequency after the occurrence of an imbalance.
Frequency Response Deadband	An interval used intentionally to make the Frequency control unresponsive. In the case of mechanical governor systems, the Frequency Response Deadband is the same as Frequency Response Insensitivity.

Frequency Response Insensitivity	The inherent feature of the control system specified as the minimum magnitude of change in the Frequency or input signal that results in a change of output power or output signal.
Frequency Restoration Reserves (FRR)	Means, in the context of Balancing Services , the Active Power reserves available to restore System Frequency to the nominal Frequency .
Frequency Sensitive AGR Unit	Each Generating Unit in an Existing AGR Plant for which the Generator has notified The Company that it has a safety case agreed with the Nuclear Installations Inspectorate enabling it to operate in Frequency Sensitive Mode , to the extent that such unit is within its Frequency Sensitive AGR Unit Limit . Each such Generating Unit shall be treated as if it were operating in accordance with BC3.5.1 provided that it is complying with its Frequency Sensitive AGR Unit Limit .
Frequency Sensitive AGR Unit Limit	In respect of each Frequency Sensitive AGR Unit , 8 (or such lower number which when added to the number of instances of flexibility for the purposes of assisting in a period of low System or Localised NRAPM totals 8) instances of reduction of output in any calendar year as instructed by The Company in relation to operation in Frequency Sensitive Mode (or such greater number as may be agreed between The Company and the Generator), for the purpose of assisting with Frequency control, provided the level of operation of each Frequency Sensitive AGR Unit in Frequency Sensitive Mode shall not be outside that agreed by the Nuclear Installations Inspectorate in the relevant safety case.
Frequency Sensitive Mode	A Genset , or Type C Power Generating Module or Type D Power Generating Module or DC Connected Power Park Module or HVDC System 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 , by operating so as to provide Primary Response and/or Secondary Response and/or High Frequency Response .
Fuel Security Code	The document of that title designated as such by the Secretary of State , as from time to time amended.
Future State of Energy (FSOE)	For each Electricity Storage Module, this is a series of MWh figures and associated times, which is calculated by The Company using the data provided under BC1.A.11.1, making up an estimated profile of the energy stored in that Electricity Storage Module.
Gas System Planner Licence or GSP Licence	Means a licence granted or treated as granted under section 7AA(1) of the Gas Act 1986 .
Gas Turbine Unit	A Generating Unit driven by a gas turbine (for instance by an aero-engine).
Gas Zone Diagram	A single line diagram showing boundaries of, and interfaces between, gas-insulated HV Apparatus modules which comprise part, or the whole, of a substation at a Connection Site (or in the case of OTSDUW Plant and Apparatus, Transmission Interface Site), together with the associated stop valves and gas monitors required for the safe operation of the National Electricity Transmission System or the User System , as the case may be.

Gate Closure	Has the meaning set out in the BSC .
GB CIM Governance Group	A GB standing group of technical experts who are responsible for the maintenance and coordination of GB extensions to the CIM and to Common Grid Model Exchange Standard (CGMES) profiles, such that they effectively support the Grid Code and other relevant data exchanges.
GB Code User	A User in respect of:- (a) A Generator or OTSDUA whose Main Plant and Apparatus (excluding a DC Connected Power Park Module) is connected to the System before 27 April 2019, or who had concluded Purchase Contracts for its Main Plant and Apparatus before 17 May 2018, or whose Plant and Apparatus is not the subject of a Substantial Modification which is effective on or after 27 April 2019; or (b) A DC Converter Station owner whose Main Plant and Apparatus is connected to the System before 8 September 2019, or who had concluded Purchase Contracts for its Main Plant and Apparatus before 28 September 2018, or whose Plant and Apparatus is not the subject of a Substantial Modification which is effective on or after 8 September 2019; or (c) A Non-Embedded Customer whose Main Plant and Apparatus was connected to the National Electricity Transmission System at a GB Grid Supply Point before 18 August 2019 or who had placed Purchase Contracts for its Main Plant and Apparatus before 7 September 2018 or that Non-Embedded Customer is not the subject of a Substantial Modification which is effective on or after 18 August 2019; or (d) A Network Operator whose entire distribution System was connected to the National Electricity Transmission System at one or more GB Grid Supply Points before 18 August 2019 or who had placed Purchase Contracts for its Main Plant and Apparatus in respect of its entire distribution System before 7 September 2018 or its entire distribution System is not the subject of a Substantial Modification which is effective on or after 18 August 2019. For the avoidance of doubt, a Network Operator would still be classed as a GB Code User where its entire distribution System was connected to the National Electricity Transmission System at one or more GB Grid Supply Points, even where that entire distribution System may have one or more EU Grid Supply Points but still comprises of GB Grid Supply Points.
GB Generator	A Generator , or OTSDUA , who is also a GB Code User .

GB Generator Final-Balancing Compliance Notification	A notification from The Company to a GB Generator in respect of an Embedded Small Power Station with a Bilateral Embedded Generation Agreement with The Company, with a Completion Date on or after 5 September 2024, confirming that the GB Generator has demonstrated compliance with: (a) the relevant sections of the Grid Code as applicable, and (b) the Bilateral Embedded Generation Agreement, and that all the items in the schedule of Unresolved Issues have been completed to The Company's satisfaction.
GB Generator Interim-Balancing Compliance Notification	A notification from The Company to a GB Generator in respect of an Embedded Small Power Station with a Bilateral Embedded Generation Agreement with The Company, with a Completion Date on or after 5 September 2024, acknowledging that the GB Generator has demonstrated compliance, except for the Unresolved Issues, with: (a) the relevant sections of the Grid Code as applicable, and (b) the Bilateral Embedded Generation Agreement.
GBGF Fast Fault Current Injection	The ability of a Grid Forming Plant to supply reactive current, that starts to be delivered into the Total System in less than 5 ms when the voltage falls below 90% of its nominal value at the Grid Entry Point or User System Entry Point .
GB Grid Forming - Inverter or GBGF-I	Is any Power Park Module , HVDC System , DC Converter , OTSDUW Plant and Apparatus , Non-Synchronous Electricity Storage Module , Dynamic Reactive Compensation Equipment or any Plant and Apparatus (including a smart load) which is connected or partly connected to the Total System via an Electronic Power Converter which has a Grid Forming Capability (GBGF-I) .
GB Grid Forming – Synchronous or GBGF-S	Is a Synchronous Power Generating Module , Synchronous Electricity Storage Module or Synchronous Generating Unit with a Grid Forming Capability .
GB Grid Supply Point	A Grid Supply Point which is not an EU Grid Supply Point .
GB Synchronous Area	The AC power System in Great Britain which connects User's , Relevant Transmission Licensee's whose AC Plant and Apparatus is considered to operate in synchronism with each other at each Connection Point or User System Entry Point and at the same System Frequency .
GCDF	Means the Grid Code Development Forum.
General Conditions or GC	That portion of the Grid Code which is identified as the General Conditions .
Generating Plant Demand Margin	The difference between Output Usable and forecast Demand .
Generating Unit	An Onshore Generating Unit and/or an Offshore Generating Unit which could also be part of a Power Generating Module .

Generating Unit Data	The Physical Notification, Export and Import Limits and Other Relevant Data only in respect of each Generating Unit (which could be part of a Power Generating Module): (a) which forms part of the BM Unit which represents that Cascade Hydro Scheme; (b) at an Embedded Exemptable Large Power Station, where the relevant Bilateral Agreement specifies that compliance with BC1 and/or BC2 is required: (i) to each Generating Unit, or (ii) to each Power Park Module where the Power Station comprises Power Park Modules.
Generation Capacity	Has the meaning set out in the BSC .
Generation Planning Parameters	Those parameters listed in Appendix 1 of OC2 .
Generator	A person who generates electricity or undertakes Electricity Storage under licence or exemption under the Act , acting in its capacity as a generator in Great Britain or Offshore . The term Generator includes a EU Generator and a GB Generator .
Generator Performance Chart	A diagram which shows the MW and MVar capability limits within which a Generating Unit will be expected to operate under steady state conditions.
Genset	A Power Generating Module (including a DC Connected Power Park Module and/or Electricity Storage Module), Generating Unit , Power Park Module or CCGT Module at a Large Power Station or any Power Generating Module (including a DC Connected Power Park Module), Generating Unit , Power Park Module or CCGT Module which is directly connected to the National Electricity Transmission System .
Good Industry Practice	The exercise of that degree of skill, diligence, prudence and foresight which would reasonably and ordinarily be expected from a skilled and experienced operator engaged in the same type of undertaking under the same or similar circumstances.
Governance Rules or GR	That portion of the Grid Code which is identified as the Governance Rules .
Governor Deadband	An interval used intentionally to make the frequency control unresponsive.
Great Britain or GB	The landmass of England and Wales and Scotland, including internal waters.
Grid Code Fast Track Proposals	A proposal to modify the Grid Code which is raised pursuant to GR.26 and has not yet been approved or rejected by the Grid Code Review Panel .
Grid Code Modification Fast Track Report	A report prepared pursuant to GR.26

Grid Code Modification Register	Has the meaning given in GR.13.1.
Grid Code Modification Report	Has the meaning given in GR.22.1.
Grid Code Modification Procedures	The procedures for the modification of the Grid Code (including the implementation of Approved Modifications) as set out in the Governance Rules .
Grid Code Modification Proposal	A proposal to modify the Grid Code which is not yet rejected pursuant to GR.15.5 or GR.15.6 and has not yet been implemented.
Grid Code Modification Self- Governance Report	Has the meaning given in GR.24.5
Grid Code Objectives	Means the objectives referred to in condition E3.2(b) of the ESO Licence .
Grid Code Review Panel or Panel	The panel with the functions set out in GR.1.2.
Grid Code Review Panel Recommendation Vote	The vote of Panel Members undertaken by the Panel Chairperson in accordance with Paragraph GR.22.4 as to whether in their view they believe each proposed Grid Code Modification Proposal , or Workgroup Alternative Grid Code Modification would better facilitate achievement of the Grid Code Objective(s) and so should be made.
Grid Code Review Panel Self-Governance Vote	The vote of Panel Members undertaken by the Panel Chairperson in accordance with GR.24.9 as to whether they believe each proposed Grid Code Modification Proposal, as compared with the then existing provisions of the Grid Code and any Workgroup Alternative Grid Code Modification set out in the Grid Code Modification Self-Governance Report , would better facilitate achievement of the Grid Code Objective(s) .
Grid Code Self-Governance Proposals	Grid Code Modification Proposals which satisfy the Self Governance Criteria .
Grid Entry Point	An Onshore Grid Entry Point or an Offshore Grid Entry Point .
Grid Forming Active Power	Grid Forming Active Power is the inherent Active Power produced by Grid Forming Plant that includes Active Inertia Power plus Active Phase Jump Power plus Active Damping Power .

Grid Forming Capability	Is (but not limited to) the capability a Power Generating Module, HVDC Converter (which could form part of an HVDC System), Generating Unit, Power Park Module, DC Converter, OTSDUW Plant and Apparatus, Electricity Storage Module, Dynamic Reactive Compensation Equipment or any Plant and Apparatus (including a smart load) whose supplied Active Power is directly proportional to the difference between the magnitude and phase of its Internal Voltage Source and the magnitude and phase of the voltage at the Grid Entry Point or User System Entry Point and the sine of the Load Angle. As a consequence, Plant and Apparatus which has a Grid Forming Capability has a frequency of rotation of the Internal Voltage Source which is the same as the System Frequency for normal operation, with only the Load Angle defining the relative position between the two. In the case of a GBGF-I, a Grid Forming Unit forming part of a GBGF-I shall be capable of sustaining a voltage at its terminals irrespective of the voltage at the Grid Entry Point or User System Entry Point for normal operating conditions. For GBGF-I, the control system, which determines the amplitude and phase of the Internal Voltage Source, shall have a response to the voltage and System Frequency at the Grid Entry Point or User System Entry Point) with a bandwidth that is less than a defined value as shown by the control system's NFP Plot. Exceptions to this requirement are only allowed during transients caused by System faults, voltage dips/surges and/or step or ramp changes in the phase angle which are large enough to cause damage to the Grid Forming Plant via excessive currents.
Grid Forming Electronic Power Converter	A Grid Forming Plant whose output is derived from an Electronic Power Converter with a GBGF-I capability.
Grid Forming Plant	A site which contains Plant and Apparatus which is classified as either a GBGF-S or a GBGF-I
Grid Forming Plant Owner	The owner or operator of a Grid Forming Plant .
Grid Forming Unit	A Power Park Unit or Electricity Storage Unit or a Synchronous Power Generating Unit or individual Load with a Grid Forming Capability .
Grid Oscillation Value	An injected test frequency signal applied at nominal System Frequency with a superimposed oscillatory response overlayed onto the nominal System Frequency with an amplitude of 0.05 Hz peak to peak at a frequency of 1 Hz and is used for determining the rating of the Defined Active Damping Power .
Grid Supply Point	A point of supply from the National Electricity Transmission System to Network Operators or Non-Embedded Customers which could be a GB Grid Supply Point or an EU Grid Supply Point .
Gross Demand	The sum of the Group Demand and Embedded Power Station Import .
Group	Those National Electricity Transmission System sub-stations bounded solely by the faulted circuit(s) and the overloaded circuit(s) excluding any third party connections between the Group and the rest of the National Electricity Transmission System , the faulted circuit(s) being a Secured Event .

Group Demand	Aggregated Embedded Customer Import summated with the associated Latent Demand .
GSP Group	Has the meaning as set out in the BSC .
Headroom	The Power Available (in MW) less the actual Active Power exported from the Power Park Module (in MW).
High Frequency Response	An automatic reduction in Active Power output in response to an increase in System Frequency above the Target Frequency (or such other level of Frequency as may have been agreed in an Ancillary Services Agreement). This reduction in Active Power output must be in accordance with the provisions of the relevant Ancillary Services Agreement which will provide that it will be released increasingly with time over the period 0 to 10 seconds from the time of the Frequency increase on the basis set out in the Ancillary Services Agreement and fully achieved within 10 seconds of the time of the start of the Frequency increase and it must be sustained at no lesser reduction thereafter. The interpretation of the High Frequency Response to a + 0.5 Hz frequency change is shown diagrammatically in Figure CC.A.3.3 and Figure ECC.A.3.3.
High Voltage or HV	For E&W Transmission Systems , a voltage exceeding 650 V. For Scottish Transmission Systems , a voltage exceeding 1000 V.
Historic Frequency Data	System Frequency data at a maximum of 1 second intervals for the whole month, published by The Company as detailed in OC3.4.4.
Houseload Operation	Operation which ensures that a Power Station is able to continue to supply its in-house load in the event of System faults resulting in Power-Generating Modules being disconnected from the System and tripped onto their auxiliary supplies
HP Turbine Power Fraction	Ratio of steady state mechanical power delivered by the HP turbine to the total steady state mechanical power delivered by the total steam turbine at Registered Capacity or Maximum Capacity .
HV Connections	Apparatus connected at the same voltage as that of the National Electricity Transmission System , including Users' circuits, the higher voltage windings of Users' transformers and associated connection Apparatus .
HVDC Converter	Any EU Code User Apparatus used to convert alternating current electricity to direct current electricity, or vice versa. An HVDC Converter is a standalone operative configuration at a single site comprising one or more converter bridges, together with one or more converter transformers, reactors, converter control equipment, essential protective and switching devices and auxiliaries, if any, used for conversion. In a bipolar arrangement, an HVDC Converter represents the bipolar configuration.
HVDC Converter Station	Part of an HVDC System which consists of one or more HVDC Converters installed in a single location together with buildings, reactors, filters reactive power devices, control, monitoring, protective, measuring and auxiliary equipment.

HVDC Equipment	Collectively means an HVDC System and a DC Connected Power Park Module and a Remote End HVDC Converter Station .
HVDC Interface Point	A point at which HVDC Plant and Apparatus is connected to an AC System at which technical specifications affecting the performance of the Plant and Apparatus can be prescribed.
HVDC System	An electrical power system which transfers energy in the form of high voltage direct current between two or more alternating current (AC) buses and comprises at least two HVDC Converter Stations with DC Transmission lines or cables between the HVDC Converter Stations .
HVDC System Owner	A party who owns and is responsible for an HVDC System . For the avoidance of doubt a DC Connected Power Park Module owner would be treated as a Generator .
IEC	International Electrotechnical Commission.
IEC Standard	A standard approved by the International Electrotechnical Commission.
Implementation Date	Is the date and time for implementation of an Approved Modification as specified in accordance with Paragraph GR.25.3.
Implementing Safety Co-ordinator	The Safety Co-ordinator implementing Safety Precautions .
Import Usable	That portion of Registered Import Capacity which is expected to be available and which is not unavailable due to a Planned Outage .
Incident Centre	A centre established by The Company or a User as the focal point in The Company or in that User , as the case may be, for the communication and dissemination of information between the senior management representatives of The Company , or of that User , as the case may be, and the relevant other parties during a Joint System Incident in order to avoid overloading The Company's , or that User's , as the case may be, existing operational/control arrangements.
Independent Back-Up Protection	A Back-Up Protection system which utilises a discrete relay, different current transformers and an alternate operating principle to the Main Protection systems(s) such that it can operate autonomously in the event of a failure of the Main Protection .
Independent Main Protection	A Main Protection system which utilises a physically discrete relay and different current transformers to any other Main Protection .
Indicated Constraint Boundary Margin	The difference between a constraint boundary transfer limit and the difference between the sum of BM Unit Maximum Export Limits and the forecast of local Demand within the constraint boundary.
Indicated Imbalance	The difference between the sum of Physical Notifications for BM Units comprising Generating Units or CCGT Modules or Power Generating Modules and the forecast of Demand for the whole or any part of the System .
Indicated Margin	The difference between the sum of BM Unit Maximum Export Limits submitted and the forecast of Demand for the whole or any part of the System .

Inertia Constant H	For a GBGF-S the Inertia Constant H is measured in MWs/MVA.
Inertia Constant He	For a GBGF- I Electronic Power Converter the Inertia Constant He , is measured in MWs/MVA and produced by the Active ROCOF Response Power .
Information Request Notice	A notice that will be issued by The Company to a relevant party setting out The Company's reasonable requirements for relevant information in accordance with section 172 of the Energy Act 2023. This will be prepared in accordance with The Company's published Information Request Statement .
Information Request Statement	A statement prepared and published by The Company , in accordance with section 172 of the Energy Act 2023 and condition D2.5 of the ESO Licence and GSP Licence , setting out the process that The Company will follow when requesting information from relevant parties by the issue of an Information Request Notice .
Installation Document	A simple structured document containing information about a Type A Power Generating Module or a Demand Unit , with demand response connected below 1000 V, and confirming its compliance with the relevant requirements.
Instructor Facilities	A device or system which gives certain Transmission Control Centre instructions with an audible or visible alarm, and incorporates the means to return message acknowledgements to the Transmission Control Centre .
Integral Equipment Test or IET	A test on equipment, associated with Plant and/or Apparatus , which takes place when that Plant and/or Apparatus forms part of a Synchronised System and which, in the reasonable judgement of the person wishing to perform the test, may cause an Operational Effect .
Intellectual Property" or "IPRs	Patents, trade marks, service marks, rights in designs, trade names, copyrights and topography rights (whether or not any of the same are registered and including applications for registration of any of the same) and rights under licences and consents in relation to any of the same and all rights or forms of protection of a similar nature or having equivalent or similar effect to any of the same which may subsist anywhere in the world.
Interconnector	As defined in the BSC .
Interconnection Agreement	An agreement made between The Company and an Externally Interconnected System Operator and/or an Interconnector User and/or other relevant persons for the External Interconnection relating to an External Interconnection and/or an agreement under which an Interconnector User can use an External Interconnection .
Interconnector Export Capacity	In relation to an External Interconnection means the (daily or weekly) forecast value (in MW) at the time of the (daily or weekly) peak demand, of the maximum level at which the External Interconnection can export to the Grid Entry Point .

Interconnector Import Capacity	In relation to an External Interconnection means the (daily or weekly) forecast value (in MW) at the time of the (daily or weekly) peak demand of the maximum level at which the External Interconnection can import from the Grid Entry Point .
Interconnector Owner	Has the meaning given to the term in the Connection and Use of System Code .
Interconnector Reference Programme	Has the meaning given to that term in section BC1.A.3.
Interconnector User	Has the meaning set out in the BSC .
Interface Agreement	Has the meaning set out in the CUSC .
Interface Point	As the context admits or requires either; (a) the electrical point of connection between an Offshore Transmission System and an Onshore Transmission System , or (b) the electrical point of connection between an Offshore Transmission System and a Network Operator's User System .
Interface Point Capacity	The maximum amount of Active Power transferable at the Interface Point as declared by a User under the OTSDUW Arrangements expressed in whole MW.
Interface Point Target Voltage/Power factor	The nominal target voltage/power factor at an Interface Point which a Network Operator requires The Company to achieve by operation of the relevant Offshore Transmission System .
Interim-Balancing Compliance Notification	A notification from The Company to an EU Generator in respect of an Embedded Small Power Station with a Bilateral Embedded Generation Agreement with The Company , with a Completion Date on or after 5 September 2024, acknowledging that the Generator has demonstrated compliance, except for the Unresolved Issues , with: (a) Engineering Recommendation G99 as required by the relevant Network Operator , (b) The relevant sections of the Grid Code and Bilateral Embedded Generation Agreement .

Interim Operational Notification or ION	A notification from The Company to a Generator or DC Converter Station owner or HVDC System Owner or Network Operator or Non-Embedded Customer acknowledging that the User has demonstrated compliance, except for the Unresolved Issues; (a) with the Grid Code, and (b) where applicable, with Appendices F1 to F5 of the Bilateral Agreement, in each case in respect of the Plant and Apparatus (including OTSUA) specified in such notification and provided that in the case of the OTSDUW Arrangements such notification shall be provided to a Generator in two parts dealing with the OTSUA and Generator's Plant and Apparatus (called respectively "Interim Operational Notification Part A" or "ION A" and "Interim Operational Notification Part B" or "ION B") as provided for in the CP or ECP.
Intermittent Power Source	The primary source of power for a Generating Unit or Power Generating Module that cannot be considered as controllable, e.g. wind, wave or solar. For the avoidance of doubt, the output from an Electricity Storage Module would not be considered to be an Intermittent Power Source.
Internal Voltage Source or IVS	For a GBGF-S, a real magnetic field, that rotates synchronously with the System Frequency under normal operating conditions, which as a consequence induces an internal voltage (which is often referred to as the Electro Motive Force (EMF)) in the stationary generator winding that has a real impedance. In a GBGF-I, switched power electronic devices are used to produce a voltage waveform, with harmonics, that has a fundamental rotational component called the Internal Voltage Source (IVS) that rotates synchronously with the System Frequency under normal operating conditions. For a GBGF-I there must be an impedance between the Internal Voltage Source and the Grid Entry Point or User System Entry Point. For the avoidance of doubt, the impedance between the Internal Voltage Source and the Grid Entry Point or User System Entry Point could be virtual, real, or a combination of the two.
Intertripping	(a) The tripping of circuit-breaker(s) by commands initiated from Protection at a remote location independent of the state of the local Protection; or (b) Operational Intertripping.
Intertrip Apparatus	Apparatus which performs Intertripping .
IP Completion Day	31 December 2020 as defined in Section 39 of the European Union (Withdrawal Agreement) Act 2020.
IP Turbine Power Fraction	Ratio of steady state mechanical power delivered by the IP turbine to the total steady state mechanical power delivered by the total steam turbine at Registered Capacity or Maximum Capacity .
Isolating Device	A device for achieving Isolation .

Isolation	The disconnection of HV Apparatus (as defined in OC8A.1.6.2 and OC8B.1.7.2) from the remainder of the System in which that HV Apparatus is situated by either of the following: (a) an Isolating Device maintained in an isolating position. The isolating position must either be: (i) maintained by immobilising and Locking the Isolating Device in the isolating position and affixing a Caution Notice to it. Where the Isolating Device is Locked with a Safety Key, the Safety Key must be secured in a Key Safe and the Key Safe Key must be, where reasonably practicable, given to the authorised site representative of the Requesting Safety Co-Ordinator and is to be retained in safe custody. Where not reasonably practicable the Key Safe Key must be retained by the authorised site representative of the Implementing Safety Co-ordinator in safe custody; or (ii) maintained and/or secured by such other method which must be in accordance with the Local Safety Instructions or the Safety Rules of the Relevant Transmission Licensee or that User, as the case may be; or (b) an adequate physical separation which must be in accordance with and maintained by the method set out in the Local Safety Instructions or the Safety Rules of the Relevant Transmission Licensee or that User, as the case may be.
ISOP	Independent System Operator and Planner, means a person designated by the Secretary of State under section 162 of the Energy Act 2023 as the holder of the ESO Licence , and the GSP Licence . For the time being that person is the NESO .
Joint System Incident	An Event wherever occurring (other than on an Embedded Medium Power Station or an Embedded Small Power Station) which, in the opinion of The Company or a User , has or may have a serious and/or widespread effect, in the case of an Event on a User(s) System(s) (other than on an Embedded Medium Power Station or Embedded Small Power Station), on the National Electricity Transmission System , and in the case of an Event on the National Electricity Transmission System , on a User(s) System(s) (other than on an Embedded Medium Power Station or Embedded Small Power Station).
Key Safe	A device for the secure retention of keys.
Key Safe Key	A key unique at a Location capable of operating a lock, other than a control lock, on a Key Safe .

Large Power Station	A Power Station which is (a) directly connected to: (i) NGET's Transmission System where such Power Station has a Registered Capacity of 100 MW or more; or (ii) SPT's Transmission System where such Power Station has a Registered Capacity of 30 MW or more; or (iii) SHETL's Transmission System where such Power Station has a Registered Capacity of 10 MW or more; or (iv) an Offshore Transmission System where such Power Station has a Registered Capacity of 10 MW or more; or, (b) Embedded within a User System (or part thereof) where such User System (or part thereof) is connected under normal operating conditions to: (i) NGET's Transmission System and such Power Station has a Registered Capacity of 100 MW or more; or (ii) SPT's Transmission System and such Power Station has a Registered Capacity of 30 MW or more; or (iii) SHETL's Transmission System and such Power Station has a Registered Capacity of 10 MW or more; or, (c) Embedded within a User System (or part thereof) where the User System (or part thereof) is not connected to the National Electricity Transmission System, although such Power Station is in: (i) NGET's Transmission Area where such Power Station has a Registered Capacity of 100 MW or more; or (ii) SPT's Transmission Area where such Power Station has a Registered Capacity of 30 MW or more; or (iii) SHETL's Transmission Area where such Power Station has a Registered Capacity of 10 MW or more; For the avoidance of doubt, a Large Power Station could comprise of Type A, Type B, Type C or Type D Power Generating Modules.
Latent Demand	An increase in Embedded Customer Import that would appear: • If any demand side response was not operating; • If any Suppliers' time of use tariffs were not implemented; • If any Network Operator or The Company's price signals were not implemented; • If any other means of suppressing Embedded Customer Import were not operating; or In the event of cold load pickup.
Legally Binding Decisions of the European Commission and/or the Agency	Any relevant legally binding decision or decisions of the European Commission and/or the Agency, but a binding decision does not include a decision that is not, or so much of a decision as is not, Assimilated Law.

Legal Challenge	Where permitted by law, a judicial review in respect of the Authority's decision to approve or not to approve a Grid Code Modification Proposal .
Licence	Any licence granted to The Company or a Relevant Transmission Licensee or a User , under Section 6 of the Act .
Licence Standards	Those standards set out or referred to in condition E7 of The Company's ESO Licence and/or condition D3 and/or condition E16 of a Relevant Transmission Licensee's Transmission Licence .
Limited-Balancing Compliance Notification	A notification from The Company to an EU Generator in respect of an Embedded Small Power Station with a Bilateral Embedded Generation Agreement with The Company, with a Completion Date on or after 5 September 2024, stating that the Generator's Plant and/or Apparatus specified in such notification may be, or is, unable to comply: (a) with the relevant provisions of the Grid Code and the Bilateral Embedded Generation Agreement; and/or (b) in accordance with ECP.9.1 (ii) of the Grid Code, upon receipt of notification from the Network Operator concerning an EU Generator failing to meet the requirements of Engineering Recommendation G99 or any provisions of the Grid Code, or where applicable Bilateral Agreement.
Limited Frequency Sensitive Mode	A mode whereby the operation of the Genset or Power Generating Module (or DC Converter at a DC Converter Station or HVDC Systems exporting Active Power to the Total System) is Frequency insensitive except when the System Frequency exceeds 50.4 Hz, from which point Limited High Frequency Response must be provided. For Power Generating Modules (including DC Connected Power Park Modules) and HVDC Systems , operation in Limited Frequency Sensitive Mode would require Limited Frequency Sensitive Mode – Overfrequency (LFSM-O) capability and Limited Frequency Sensitive Mode – Underfrequency (LFSM-U) capability.
Limited Frequency Sensitive Mode – Overfrequency or LFSM-O	A Power Generating Module (including a DC Connected Power Park Module) or HVDC System operating mode which will result in Active Power output reduction in response to a change in System Frequency above a certain value.
Limited Frequency Sensitive Mode – Underfrequency or LFSM-U	A Power Generating Module (including a DC Connected Power Park Module) or HVDC System operating mode which will result in Active Power output increase in response to a change in System Frequency below a certain value.
Limited High Frequency Response	A response of a Genset (or DC Converter at a DC Converter Station exporting Active Power to the Total System) to an increase in System Frequency above 50.4 Hz leading to a reduction in Active Power in accordance with the provisions of BC3.7.2.1.

Limited Membership Workgroup	A Workgroup having less than five (5) but more than two (2) persons that have nominated themselves for membership in addition to the Code Administrator representative and the chairperson of the Workgroup. Members of a Limited Membership Workgroup where employed by companies that are considered to be an Affiliate of each other will be considered to be a single workgroup member for the purposes of fulfilling this minimum requirement.
Limited Operational Notification or LON	A notification from The Company to a Generator or DC Converter Station owner or HVDC System Owner or Network Operator or Non-Embedded Customer stating that the User's Plant and/or Apparatus specified in such notification may be, or is, unable to comply: (a) with the provisions of the Grid Code specified in the notice, and (b) where applicable, with Appendices F1 to F5 of the Bilateral Agreement , and specifying the Unresolved Issues.
Load	The Active, Reactive or Apparent Power , as the context requires, generated, transmitted or distributed.
Loaded	Supplying electrical power to the System .
Load Block	Part or parts of a Network Operator's User System that the Network Operator reasonably believes will effect a reduction in their Demand of between 4% and 6% when disconnected by the Network Operator via switching operations, and which shall be designated by the Network Operator with a unique identifier in the range 'A' to 'E', 'G' to 'N' or 'P' inclusive (in accordance with the Electricity Supply Emergency Code).
Load Angle	The angle in radians between the voltage of the Internal Voltage Source and the voltage at the Grid Entry Point or User System Entry Point .
Load Factor	The ratio of the actual output of a Generating Unit or Power Generating Module to the possible maximum output of that Generating Unit or Power Generating Module .
Load Management Block	A block of Demand controlled by a Supplier or other party through the means of radio teleswitching or by some other means.
Local Joint Restoration Plan	A plan produced and agreed by The Company, Transmission Licensee, Restoration Contractors and a Network Operator under OC9.4.7.7, detailing the agreed method and procedure by which The Company or Transmission Licensee in Scotland will instruct a Restoration Contractor with an Anchor Plant to energise, part of the Total System within 2 hours of that instruction and subsequently meet complementary blocks of local Demand so as to form a Power Island. A Local Joint Restoration Plan may require the use of Top Up Restoration Plant. A Local Joint Restoration Plan is distinct from and falls outside the provisions of a Distribution Restoration Zone Plan.

Local Safety Instructions	For safety co-ordination in England and Wales, instructions on each User Site and Transmission Site , approved by NGET's , the relevant Competitively Appointed Transmission Licensee's or User's relevant manager as relevant for the User Site location, setting down the methods of achieving the objectives of NGET's or the relevant Competitively Appointed Transmission Licensee's or the User's Safety Rules , as the case may be, to ensure the safety of personnel carrying out work or testing on Plant and/or Apparatus on which their Safety Rules apply and, in the case of a User , any other document(s) on a User Site which contains rules with regard to maintaining or securing the isolating position of an Isolating Device , or maintaining a physical separation or maintaining or securing the position of an Earthing Device .
Local Switching Procedure	A procedure produced under OC7.6 detailing the agreed arrangements in respect of carrying out of Operational Switching at Connection Sites and parts of the National Electricity Transmission System adjacent to those Connection Sites .
Localised Negative Reserve Active Power Margin or Localised NRAM	That margin of Active Power sufficient to allow transfers to and from a System Constraint Group (as the case may be) to be contained within such reasonable limit as The Company may determine.
Location	Any place at which Safety Precautions are to be applied.
Locked	A condition of HV Apparatus that cannot be altered without the operation of a locking device.
Locking	The application of a locking device which enables HV Apparatus to be Locked .
London Court of International Arbitration	The leading London-based arbitral institution and not-for-profit company limited by guarantee of that name with a registered company number of 0204767 providing for the resolution of commercial disputes in accordance with its arbitration rules.
Low Frequency Relay	Has the same meaning as Under Frequency Relay .
Low Voltage or LV	For E&W Transmission Systems a voltage not exceeding 250 V. For Scottish Transmission Systems , a voltage exceeding 50 V but not exceeding 1000 V.
LV Side of the Offshore Platform	Unless otherwise specified in the Bilateral Agreement , the busbar on the Offshore Platform (typically 33 kV) at which the relevant Offshore Grid Entry Point is located.

Main Plant and Apparatus	In respect of a Power Station (including Power Stations comprising of DC Connected Power Park Modules and Electricity Storage Modules) is one or more of the principal items of Plant or Apparatus required to convert or re-convert the primary source of energy into electricity. In respect of HVDC Systems or DC Converters or Transmission DC Converters is one of the principal items of Plant or Apparatus used to convert high voltage direct current to high voltage alternating current or vice versa. In respect of a Network Operator's equipment or a Non-Embedded Customer's equipment, is one of the principal items of Plant or Apparatus required to facilitate the import or export of Active Power or Reactive Power to or from a Network Operator's or Non-Embedded Customer's System.
Main Protection	A Protection system which has priority above other Protection in initiating either a fault clearance or an action to terminate an abnormal condition in a power system.
Manufacturer's Data & Performance Report	A report submitted by a manufacturer to The Company relating to a specific version of a Power Park Unit demonstrating the performance characteristics of such Power Park Unit in respect of which The Company has evaluated its relevance for the purposes of the Compliance Processes .
Manufacturer's Test Certificates	A certificate prepared by a manufacturer which demonstrates that its Power Generating Module has undergone appropriate tests and conforms to the performance requirements expected by The Company in satisfying its compliance requirements and thereby satisfies the appropriate requirements of the Grid Code and Bilateral Agreement .
Market Operation Data Interface System (MODIS)	A computer system operated by The Company and made available for use by Customers connected to or using the National Electricity Transmission System for the purpose of submitting EU Transparency Availability Data to The Company .
Market Suspension Threshold	Has the meaning given to the term 'Market Suspension Threshold' in Section G of the BSC .
Material Effect	An effect causing The Company or a Relevant Transmission Licensee to effect any works or to alter the manner of operation of Transmission Plant and/or Transmission Apparatus at the Connection Site (which term shall, in this definition and in the definition of " Modification " only, have the meaning ascribed thereto in the CUSC) or the site of connection or a User to effect any works or to alter the manner of operation of its Plant and/or Apparatus at the Connection Site or the site of connection which in either case involves that party in expenditure of more than £10,000.
Materially Affected Party	Any person or class of persons designated by the Authority as such.
Maximum Delivery Offer (MDO)	As defined in BC1.A.1.5 Dynamic Parameters .
Maximum Delivery Bid (MDB)	As defined in BC1.A.1.5 Dynamic Parameters .

Maximum Export Capability	The maximum continuous Active Power that a Network Operator or Non-Embedded Customer can export to the Transmission System at the Grid Supply Point , as specified in the Bilateral Agreement .
Maximum Export Capacity	The maximum continuous Apparent Power expressed in MVA and maximum continuous Active Power expressed in MW which can flow from an Offshore Transmission System connected to a Network Operator's User System , to that User System .
Maximum Capacity or $P_{\max}$	The maximum continuous Active Power which a Power Generating Module can supply to the Total System , less any demand associated solely with facilitating the operation of that Power Generating Module and not fed into the System . In the case of an Electricity Storage Module , the Maximum Capacity is the maximum continuous Active Power which an Electricity Storage Module can export to the Total System less any demand associated with facilitating the operation of that Electricity Storage Module when fully charged and operating in a mode analogous to Generation .
Maximum Generation Service or MGS	A service utilised by The Company in accordance with the CUSC and the Balancing Principles Statement in operating the Total System .
Maximum Generation Service Agreement	An agreement between a User and The Company for the payment by The Company to that User in respect of the provision by such User of a Maximum Generation Service .
Maximum HVDC Active Power Transmission Capacity (PHmax)	The maximum continuous Active Power which an HVDC System can exchange with the network at each Grid Entry Point or User System Entry Point as specified in the Bilateral Agreement or as agreed between The Company and the HVDC System Owner .
Maximum Import Capability	The maximum continuous Active Power that a Network Operator or Non-Embedded Customer can import from the Transmission System at the Grid Supply Point , as specified in the Bilateral Agreement .
Maximum Import Capacity	The maximum continuous Apparent Power expressed in MVA and maximum continuous Active Power expressed in MW which can flow to an Offshore Transmission System connected to a Network Operator's User System , from that User System .
Maximum Import Power	The maximum continuous Active Power which an Electricity Storage Module can import from the Total System , when fully discharged and operating in a mode analogous to Demand .
Measured Demand	Demand measured at the relevant Connection Point . Sometimes referred to as the net demand.

Medium Power Station	A Power Station which is (a) directly connected to NGET's Transmission System where such Power Station has a Registered Capacity of 50 MW or more but less than 100 MW; or, (b) Embedded within a User System (or part thereof) where such User System (or part thereof) is connected under normal operating conditions to NGET's Transmission System and such Power Station has a Registered Capacity of 50 MW or more but less than 100 MW; or, (c) Embedded within a User System (or part thereof) where the User System (or part thereof) is not connected to the National Electricity Transmission System, although such Power Station is in NGET's Transmission Area and such Power Station has a Registered Capacity of 50 MW or more but less than 100 MW. For the avoidance of doubt a Medium Power Station could comprise of Type A, Type B, Type C or Type D Power Generating Modules.
Medium Voltage or MV	For E&W Transmission Systems a voltage exceeding 250 V but not exceeding 650 V.
Mills	Milling plant which supplies pulverised fuel to the boiler of a coal fired Power Station .
Minimum Generation	The minimum output (in whole MW) which a Genset can generate or DC Converter at a DC Converter Station or Electricity Storage Module can import or export to the Total System under stable operating conditions, as registered with The Company under the PC (and amended pursuant to the PC). For the avoidance of doubt, the output may go below this level as a result of operation in accordance with BC3.7.
Minimum Active Power Transmission Capacity (PHmin)	The minimum continuous Active Power which an HVDC System can exchange with the System at each Grid Entry Point or User System Entry Point as specified in the Bilateral Agreement or as agreed between The Company and the HVDC System Owner .
Minimum Import Capacity	The minimum input (in whole MW) into a DC Converter at a DC Converter Station or HVDC System at an HVDC Converter (in any of its operating configurations) at the Onshore Grid Entry Point (or in the case of an Embedded DC Converter or an Embedded HVDC Converter at the User System Entry Point) at which a DC Converter or HVDC Converter can operate in a stable manner, as registered with The Company under the PC (and amended pursuant to the PC).
Minimum Regulating Level	The minimum Active Power , as specified in the Bilateral Agreement or as agreed between The Company and the Generator or HVDC System Owner , down to which the Power Generating Module (including a DC Connected Power Park Module) or HVDC System can control Active Power .

Minimum Stable Operating Level	The minimum Active Power , as specified in the Bilateral Agreement or as agreed between The Company and the Generator , at which the Power Generating Module can be operated stably for an unlimited time.
Minister of the Crown	As defined in the ESO Licence .
Modification	Any actual or proposed replacement, renovation, modification, alteration or construction by or on behalf of a User or The Company to either that User's Plant or Apparatus or Transmission Plant or Apparatus , as the case may be, or the manner of its operation which has or may have a Material Effect on The Company or a User , as the case may be, at a particular Connection Site .
Mothballed DC Connected Power Park Module	A DC Connected Power Park Module that has previously generated which the Generator plans not to use to generate for the remainder of the current Financial Year but which could be returned to service.
Mothballed DC Converter at a DC Converter Station	A DC Converter at a DC Converter Station that has previously imported or exported power which the DC Converter Station Owner plans not to use to import or export power for the remainder of the current Financial Year but which could be returned to service.
Mothballed HVDC System	An HVDC System that has previously imported or exported power which the HVDC System Owner plans not to use to import or export power for the remainder of the current Financial Year but which could be returned to service.
Mothballed HVDC Converter	An HVDC Converter which is part of an HVDC System that has previously imported or exported power which the HVDC System Owner plans not to use to import or export power for the remainder of the current Financial Year but which could be returned to service.
Mothballed Generating Unit	A Generating Unit that has previously generated which the Generator plans not to use to generate for the remainder of the current Financial Year but which could be returned to service. For the avoidance of doubt a Mothballed Generating Unit could be part of a Power Generating Module .
Mothballed Power Generating Module	A Power Generating Module that has previously generated which the Generator plans not to use to generate for the remainder of the current Financial Year but which could be returned to service.
Mothballed Power Park Module	A Power Park Module that has previously generated which the Generator plans not to use to generate for the remainder of the current Financial Year but which could be returned to service.
Multiple Point of Connection	A double (or more) Point of Connection , being two (or more) Points of Connection interconnected to each other through the User's System .
MSID	Has the meaning a set out in the BSC , covers Metering System Identifier.

National Demand	The amount of electricity supplied from the Grid Supply Points plus:- - that supplied by Embedded Large Power Stations, and National Electricity Transmission System Losses, minus:- - the Demand taken by Station Transformers and, Pumped Storage Units and Electricity Storage Modules’. and, for the purposes of this definition, does not include:- - any exports from the National Electricity Transmission System across External Interconnections.
National Electricity Transmission System (NETS)	The Onshore Transmission System and, where owned by Offshore Transmission Licensees , Offshore Transmission Systems .
National Electricity Transmission System Demand	The amount of electricity supplied from the Grid Supply Points plus:- - that supplied by Embedded Large Power Stations, and - exports from the National Electricity Transmission System across External Interconnections, and National Electricity Transmission System Losses, and, for the purposes of this definition, includes:- - the Demand taken by Station Transformers and, Pumped Storage Units and Electricity Storage Modules’.
National Electricity Transmission System Losses	The losses of electricity incurred on the National Electricity Transmission System .
National Electricity Transmission System Notice	A notice issued by The Company to Users (or to certain Users only) in accordance with OC7.4.8.2, which provides information relating to System conditions or Events and is intended to: - alert Users to possible or actual Plant shortage, System problems and/or Demand reductions; - inform relevant Users of the applicable period; - indicate intended consequences for Users; - enable specified Users to ensure that their User System is in a state of readiness to implement instructions from The Company; and - provide notice to specified Users so that they can implement any instructions issued by The Company.
National Electricity Transmission System Notice – DCRP Actuation	A notice issued by The Company , in accordance with OC6.9.3, to instruct the relevant Network Operator(s) to initiate the DCRP and reconfigure their User System as required, within 8 hours, to be able to implement the Activation Schedule(s) .

National Electricity Transmission System Notice – DCRP Implementation	A notice issued by The Company , in accordance with OC6.9.5, to instruct the Network Operator(s) to make disconnections in accordance with the instructions detailed in the Activation Schedule(s) . This notice will be sent alongside the first set of Activation Schedule(s) required for a Demand Control Rotation Period .
National Electricity Transmission System Notice – DCRP Stand Down	A notice issued by The Company , in accordance with OC6.9.6, to instruct the relevant Network Operator(s) to stand down DCRP arrangements as soon as reasonably practicable and securely revert their networks back to normal network configuration and operation without Demand Disconnection or to notify the relevant Network Operator(s) to transition to the Electricity Supply Emergency Code arrangements.
National Electricity Transmission System Operator Area	Means the area by that name as set out in the terms of the ESO Licence .
National Electricity Transmission System Study Network Data File (NETS Study Network Data File)	A computer file produced by The Company which in The Company's view provides an appropriate representation of the National Electricity Transmission System for a specific point in time. The computer file will contain information and data on Demand on the National Electricity Transmission System and on Large Power Stations including Genset power output consistent with Output Usable and The Company's view of prevailing system conditions.
National Electricity Transmission System Warning	A warning issued by The Company to Users (or to certain Users only) in accordance with OC7.4.8.2, which provides information relating to System conditions or Events and is intended to: (a) alert Users to possible or actual Plant shortage, System problems and/or Demand reductions; (b) inform of the applicable period; (c) indicate intended consequences for Users; and (d) enable specified Users to be in a state of readiness to receive instructions from The Company.
National Electricity Transmission System Warning - Demand Control Imminent	A warning issued by The Company , in accordance with OC7.4.8.7, which is intended to provide short term notice, where possible, to those Users who are likely to receive Demand reduction instructions from The Company within 30 minutes.
National Electricity Transmission System Warning - Electricity Margin Notice	A warning issued by The Company , in accordance with OC7.4.8.5, which is intended to invite a response from and to alert recipients to a decreased System Margin .
National Electricity Transmission System Warning – Embedded Generation Control Imminent	A warning issued by The Company , in accordance with OC7.4.8.12, which is intended to provide short term notice, where possible, to those Network Operators who are likely to receive Embedded Generation Control instructions from The Company within 30 minutes.

National Electricity Transmission System Warning - High Risk of Demand Reduction	A warning issued by The Company , in accordance with OC7.4.8.6, which is intended to alert recipients that there is a high risk of Demand reduction being implemented and which may normally result from an Electricity Margin Notice .
National Electricity Transmission System Warning - High Risk of Embedded Generation Reduction	A warning issued by The Company , in accordance with OC7.4.8.11, which is intended to alert recipients that there is a high risk of Embedded Generation Control being implemented and which may result from a National Electricity Transmission System Warning – System NRAPM .
National Electricity Transmission System Warning – Localised NRAPM	A warning issued by The Company , in accordance with OC.7.4.8.10, which is intended to invite a response from and to alert recipients to a decreased Localised NRAPM .
National Electricity Transmission System Warning - Risk of System Disturbance	A warning issued by The Company , in accordance with OC7.4.8.8, which is intended to alert Users of the risk of widespread and serious System disturbance which may affect Users .
National Electricity Transmission System Warning – System NRAPM	A warning issued by The Company , in accordance with OC.7.4.8.9, which is intended to invite a response from and to alert recipients to a decreased System NRAPM .
NETS PSM	A PSM with the scope as set out in PC.10.4.
National Energy System Operator or NESO	The company with registered number 11014226, as the designated ISOP and holder of the ESO Licence and the GSP Licence .
Network Data	The data to be provided by The Company to Users in accordance with the PC , as listed in Part 3 of the Appendix A to the PC or PC.10 as appropriate.
Network Frequency Perturbation Plot	A form of Bode Plot which plots the amplitude (%) and phase (degrees) of the resulting output oscillation responding to an applied input oscillation across a frequency base. The plot will be used to assess the capability and performance of a Grid Forming Plant and to ensure that it does not pose a risk to other Plant and Apparatus connected to the Total System. For GBGF-I, these are used to provide data to The Company which together with the associated Nichols Chart (or equivalent) defines the effects on a GBGF-I for changes in the frequency of the applied input oscillation. The input is the applied as an input oscillation and the output is the resulting oscillations in the GBGF-I's Active Power. For the avoidance of doubt, Generators in respect of GBGF-S can provide their data using the existing formats and do not need to supply NFP plots.
Network Gas Supply Emergency	Has the meaning set out in the BSC .

Network Operator	A person with a User System directly connected to the National Electricity Transmission System to which Customers and/or Power Stations (not forming part of the User System) are connected, acting in its capacity as an operator of the User System , but shall not include a person acting in the capacity of an Externally Interconnected System Operator or a Generator in respect of OTSUA .
NGET	National Grid Electricity Transmission plc (NO: 2366977) whose registered office is at 1-3 Strand, London, WC2N 5EH.
Nichols Chart	For a GBGF-I , a chart derived from the open loop Bode Plots that are used to produce an NFP Plot . The Nichols Chart plots open loop gain versus open loop phase angle. This enables the open loop phase for an open loop gain of 1 to be identified for use in defining the GBGF-I 's equivalent Damping Factor .
No-Load Field Voltage	Shall have the meaning ascribed to that term in IEC 34-16-1:1991 [equivalent to British Standard BS4999 Section 116.1 : 1992].
No System Connection	As defined in OC8A.1.6.2 and OC8B.1.7.2.
Non-CUSC Party	A Party who does not accede to the Connection and Use of System Code (CUSC) .
Non-Synchronous Electricity Storage Module	A Power Park Module comprising solely of one or more Non-Synchronous Electricity Storage Units .
Notification of User's Intention to Operate	A notification from a Network Operator or Non-Embedded Customer to The Company informing The Company of the date upon which any Network Operator's or Non-Embedded Customer's Plant and Apparatus at an EU Grid Supply Point will be ready to be connected to the Transmission System .
Notification of User's Intention to Synchronise	A notification from a Generator or DC Converter Station owner or HVDC System Owner to The Company informing The Company of the date upon which any OTSUA , a Generating Unit(s) , CCGT Module(s) , Power Park Module(s) , Power Generating Module(s) (including a DC Connected Power Park Module(s)), HVDC System or DC Converter(s) will be ready to be Synchronised to the Total System .
Non-Controllable Electricity Storage Equipment	An item of storage Plant , including but not limited to a Synchronous Flywheel or Synchronous Compensation Equipment or Regenerative Braking whose active output power cannot be independently controlled.
Non-Dynamic Frequency Response Service	A Demand Response Service in which the Demand is controlled through discrete switching rather than through continuous load changes in response to System Frequency changes.
Non-Embedded Customer	A Customer in Great Britain , except for a Network Operator acting in its capacity as such, receiving electricity direct from the Onshore Transmission System irrespective of from whom it is supplied.
Non-Synchronous Electricity Storage Module	A Power Park Module comprising solely of one or more Non-Synchronous Electricity Storage Units .

Non-Synchronous Electricity Storage Unit	A Power Park Unit which can produce electrical energy by converting or re-converting another source of energy such that the frequency of the generated voltage is not inherently in synchronism with the frequency of the System .
Non-Synchronous Generating Unit	An Onshore Non-Synchronous Generating Unit or Offshore Non-Synchronous Generating Unit which could form part of a Power Generating Module .
Normal CCGT Module	A CCGT Module other than a Range CCGT Module .
Novel Unit	A tidal, wave, wind, geothermal, or any similar, Generating Unit .
OC9 De-synchronised Island Procedure	Has the meaning set out in OC9.5.4.
Offer Acceptance	An acceptance by a BM Unit of a Bid-Offer Acceptance to increase its export onto, or decrease its import from, the National Electricity Transmission System , where in this context import and export are as defined in the BSC .
Offshore	Means wholly or partly in Offshore Waters , and when used in conjunction with another term and not defined means that the associated term is to be read accordingly.
Offshore DC Converter	Any User Apparatus located Offshore used to convert alternating current electricity to direct current electricity, or vice versa. An Offshore DC Converter is a standalone operative configuration at a single site comprising one or more converter bridges, together with one or more converter transformers, converter control equipment, essential protective and switching devices and auxiliaries, if any, used for conversion.
Offshore HVDC Converter	Any User Apparatus located Offshore used to convert alternating current electricity to direct current electricity, or vice versa. An Offshore HVDC Converter is a standalone operative configuration at a single site comprising one or more converter bridges, together with one or more converter transformers, converter control equipment, essential protective and switching devices and auxiliaries, if any, used for conversion.
Offshore Development Information Statement	A statement prepared by The Company .
Offshore Generating Unit	Unless otherwise provided in the Grid Code, any Apparatus located Offshore which produces electrical energy by converting or re-converting another source of energy, including, an Offshore Synchronous Generating Unit or Offshore Non-Synchronous Generating Unit which could also be part of a Power Generating Module or Electricity Storage Module

Offshore Grid Entry Point	In the case of:- (a) an Offshore Generating Unit or an Offshore Synchronous Power Generating Module or an Offshore DC Converter or an Offshore HVDC Converter, as the case may be, which is directly connected to an Offshore Transmission System, the point at which it connects to that Offshore Transmission System, or; (b) an Offshore Power Park Module which is directly connected to an Offshore Transmission System, the point where one Power Park String (registered by itself as a Power Park Module) or the collection of points where a number of Offshore Power Park Strings (registered as a single Power Park Module) connects to that Offshore Transmission System, or; (c) an External Interconnection which is directly connected to an Offshore Transmission System, the point at which it connects to that Offshore Transmission System.
Offshore Local Joint Restoration Plan	A plan produced and agreed by The Company, Offshore Transmission Licensees, Restoration Contractors, a Network Operator and in some cases an Onshore Transmission Licensee under OC9.4.7.7, detailing the agreed method and procedure by which The Company will instruct a Restoration Contractor with an Anchor Plant located Offshore to energise, part of the Total System (including but not limited to parts of the Offshore Transmission System) within 2 hours of that instruction and subsequently meet complementary blocks of local Demand so as to form a Power Island. An Offshore Local Joint Restoration Plan may require the use of Top Up Restoration Plant. An Offshore Local Joint Restoration Plan is distinct from and falls outside the provisions of a Distribution Restoration Zone Plan.
Offshore Non-Synchronous Generating Unit	An Offshore Generating Unit that is not an Offshore Synchronous Generating Unit including for the avoidance of doubt a Power Park Unit or Non-Synchronous Electricity Storage Unit located Offshore .
Offshore Platform	A single structure comprising of Plant and Apparatus located Offshore which includes one or more Offshore Grid Entry Points .
Offshore Power Park Module	A collection of one or more Offshore Power Park Strings (registered as a Power Park Module under the PC). There is no limit to the number of Power Park Strings within the Power Park Module, so long as they either: (a) connect to the same busbar which cannot be electrically split; or (b) connect to a collection of directly electrically connected busbars of the same nominal voltage and are configured in accordance with the operating arrangements set out in the relevant Bilateral Agreement.
Offshore Power Park String	A collection of Offshore Generating Units or Power Park Units or Non-Synchronous Electricity Storage Unit that are powered by an Intermittent Power Source , joined together by cables forming part of a User System with a single point of connection to an Offshore Transmission System . The connection to an Offshore Transmission System may include a DC Converter or HVDC Converter .

Offshore Synchronous Generating Unit	A Generating Unit or Synchronous Electricity Storage Unit located Offshore which could be part of an Offshore Synchronous Power Generating Module in which, under all steady state conditions, the rotor rotates at a mechanical speed equal to the electrical frequency of the National Electricity Transmission System divided by the number of pole pairs of the Generating Unit .
Offshore Synchronous Power Generating Module	A Synchronous Power Generating Module or Synchronous Electricity Storage Module located Offshore .
Offshore Tender Process	The process followed by the Authority to make, in prescribed cases, a determination on a competitive basis of the person to whom an offshore transmission licence is to be granted.
Offshore Transmission Distribution Connection Agreement	An agreement entered into by The Company and a Network Operator in respect of the connection to and use of a Network Operator's User System by an Offshore Transmission System .
Offshore Transmission Licensee	Such person in relation to whose Transmission Licence the standard conditions in Section E (offshore transmission owner standard conditions) of such Transmission Licence have been given effect, or any person in that prospective role who has acceded to the STC .
Offshore Transmission System	A system consisting (wholly or mainly) of high voltage electric lines and used for the transmission of electricity from one Power Station to a sub-station or to another Power Station or between sub-stations, and includes any Plant and Apparatus (including OTSUA) and meters in connection with the transmission of electricity but does not include any Remote Transmission Assets . An Offshore Transmission System extends from the Interface Point , or the Offshore Grid Entry Point(s) and may include Plant and Apparatus located Onshore and Offshore and, where the context permits, references to the Offshore Transmission System includes OTSUA .
Offshore Transmission System Development User Works or OTSDUW	In relation to a particular User where the OTSDUW Arrangements apply, means those activities and/or works for the design, planning, consenting and/or construction and installation of the Offshore Transmission System to be undertaken by the User as identified in Part 2 of Appendix I of the relevant Construction Agreement .
Offshore Transmission System User Assets or OTSUA	OTSDUW Plant and Apparatus constructed and/or installed by a User under the OTSDUW Arrangements which form an Offshore Transmission System that once transferred to a Relevant Transmission Licensee under an Offshore Tender Process will become part of the National Electricity Transmission System .
Offshore Waters	Has the meaning given to "offshore waters" in Section 90(9) of the Energy Act 2004.
Offshore Works Assumptions	In relation to a particular User , means those assumptions set out in Appendix P of the relevant Construction Agreement as amended from time to time.
Onshore	Means within Great Britain , and when used in conjunction with another term and not defined means that the associated term is to be read accordingly.

Onshore DC Converter	Any User Apparatus located Onshore with a Completion Date after 1 st April 2005 used to convert alternating current electricity to direct current electricity, or vice versa. An Onshore DC Converter is a standalone operative configuration at a single site comprising one or more converter bridges, together with one or more converter transformers, converter control equipment, essential protective and switching devices and auxiliaries, if any, used for conversion. In a bipolar arrangement, an Onshore DC Converter represents the bipolar configuration.
Onshore Generating Unit	Unless otherwise provided in the Grid Code, any Apparatus located Onshore which produces electrical energy by converting or re-converting another source of energy, including, an Onshore Synchronous Generating Unit or Onshore Non-Synchronous Generating Unit which could also be part of a Power Generating Module or an Electricity Storage Module .
Onshore Grid Entry Point	A point at which an Onshore Generating Unit or a CCGT Module or a CCGT Unit or an Onshore Power Generating Module or an Onshore DC Converter or an Onshore HVDC Converter or an Onshore Power Park Module or an Onshore Electricity Storage Module or an External Interconnection , as the case may be, which is directly connected to the Onshore Transmission System connects to the Onshore Transmission System .
Onshore HVDC Converter	Any User Apparatus located Onshore used to convert alternating current electricity to direct current electricity, or vice versa. An Onshore HVDC Converter is a standalone operative configuration at a single site comprising one or more converter bridges, together with one or more converter transformers, converter control equipment, essential protective and switching devices and auxiliaries, if any, used for conversion. In a bipolar arrangement, an Onshore HVDC Converter represents the bipolar configuration.
Onshore Non-Synchronous Generating Unit	A Generating Unit located Onshore that is not a Synchronous Generating Unit or Synchronous Electricity Storage Unit including for the avoidance of doubt a Power Park Unit or Non-Synchronous Electricity Storage Unit located Onshore .
Onshore Power Park Module	A collection of Non-Synchronous Generating Units that are powered by an Intermittent Power Source or connected through power electronic conversion technology or Non-Synchronous Electricity Storage Units , joined together by a System (registered as a Power Park Module under the PC) with a single electrical point of connection directly to the Onshore Transmission System (or User System if Embedded) with no intermediate Offshore Transmission System connections. The connection to the Onshore Transmission System (or User System if Embedded) may include a DC Converter or HVDC Converter .
Onshore Synchronous Generating Unit	An Onshore Generating Unit or Onshore Synchronous Electricity Storage Unit (which could also be part of an Onshore Power Generating Module) including, for the avoidance of doubt, a CCGT Unit or Synchronous Electricity Storage Unit in which, under all steady state conditions, the rotor rotates at a mechanical speed equal to the electrical frequency of the National Electricity Transmission System divided by the number of pole pairs of the Generating Unit .

Onshore Synchronous Power Generating Module	A Synchronous Power Generating Module or Synchronous Electricity Storage Module located Onshore .
Onshore Transmission Licensee	NGET, SPT, SHETL , or a Competitively Appointed Transmission Licensee .
Onshore Transmission System	The system consisting (wholly or mainly) of high voltage electric lines owned or operated by Onshore Transmission Licensees or operated by The Company and used for the transmission of electricity from one Power Station to a substation or to another Power Station or between substations or to or from Offshore Transmission Systems or to or from any External Interconnection , and includes any Plant and Apparatus and meters owned or operated by any Onshore Transmission Licensee in connection with the transmission of electricity but does not include any Remote Transmission Assets .
On-Site Generator Site	A site which is determined by the BSC Panel to be a Trading Unit under the BSC by reason of having fulfilled the Class 1 or Class 2 requirements as such terms are used in the BSC .
Operating Code or OC	That portion of the Grid Code which is identified as the Operating Code .
Operating Margin	Contingency Reserve plus Operating Reserve .
Operating Reserve	The additional output from Large Power Stations or the reduction in Demand , which must be realisable in real-time operation to respond in order to contribute to containing and correcting any System Frequency fall to an acceptable level in the event of a loss of generation or a loss of import from an External Interconnection or mismatch between generation and Demand .
Operation	A scheduled or planned action relating to the operation of a System (including an Embedded Power Station).
Operational Data	Data required under the Operating Codes and/or Balancing Codes .
Operational Day	The period from 05:00 hours on one day to 05:00 hours on the following day.
Operation Diagrams	Diagrams which are a schematic representation of the HV Apparatus and the connections to all external circuits at a Connection Site (and in the case of OTSDUW, Transmission Interface Site), incorporating its numbering, nomenclature and labelling.
Operational Effect	Any effect on the operation of the relevant other System which causes the National Electricity Transmission System or the System of the other User or Users , as the case may be, to operate (or be at a materially increased risk of operating) differently to the way in which they would or may have operated in the absence of that effect.

Operational Intertripping	The automatic tripping of circuit-breakers to prevent abnormal system conditions occurring, such as over voltage, overload, System instability, etc. after the tripping of other circuit-breakers following power System fault(s) which includes System to Generating Unit , System to CCGT Module , System to Power Park Module , System to Electricity Storage Module , System to DC Converter , System to Power Generating Module , System to HVDC Converter and System to Demand intertripping schemes.
Operational Notifications	Any Energisation Operational Notification , Interim Operational Notification , Final Operational Notification or Limited Operational Notification issued from The Company to a User .
Operational Planning	Planning through various timescales the matching of generation output with forecast National Electricity Transmission System Demand together with a reserve of generation to provide a margin, taking into account outages of certain Generating Units or Power Generating Modules , of parts of the National Electricity Transmission System and of parts of User Systems to which Power Stations and/or Customers are connected, carried out to achieve, so far as possible, the standards of security set out in the ESO Licence , each Relevant Transmission Licensee's Transmission Licence or Electricity Distribution Licence , as the case may be.
Operational Planning Margin	An operational planning margin set by The Company .
Operational Planning Phase	The period from 8 weeks to the end of the 5 th year ahead of real time operation.
Operational Procedures	Management instructions and procedures, both in support of the Safety Rules and for the local and remote operation of Plant and Apparatus , issued in connection with the actual operation of Plant and/or Apparatus at or from a Connection Site .
Operational Switching	Operation of Plant and/or Apparatus to the instruction of the relevant Control Engineer . For the avoidance of doubt, the operation of Transmission Plant and/or Apparatus forming part of the National Electricity Transmission System will be to the instruction of the Relevant Transmission Licensee .
Other Relevant Data	The data listed in BC1.4.2(f) under the heading Other Relevant Data .
OTSDUW Arrangements	The arrangements whereby certain aspects of the design, consenting, construction, installation and/or commissioning of transmission assets are capable of being undertaken by a User prior to the transfer of those assets to a Relevant Transmission Licensee under an Offshore Tender Process .
OTSDUW Data and Information	The data and information to be provided by Users undertaking OTSDUW , to The Company in accordance with Appendix F of the Planning Code .
OTSDUW DC Converter	A Transmission DC Converter designed and/or constructed and/or installed by a User under the OTSDUW Arrangements and/or operated by the User until the OTSUA Transfer Time .

OTSDUW Development and Data Timetable	The timetable for both the delivery of OTSDUW Data and Information and OTSDUW Network Data and Information as referred to in Appendix F of the Planning Code and the development of the scope of the OTSDUW .
OTSDUW Network Data and Information	The data and information to be provided by The Company to Users undertaking OTSDUW in accordance with Appendix F of the Planning Code .
OTSDUW Plant and Apparatus	Plant and Apparatus , including any OTSDUW DC Converter , designed by the User under the OTSDUW Arrangements .
OTSUA Transfer Time	The time and date at which the OTSUA are transferred to a Relevant Transmission Licensee .
Out of Synchronism	The condition where a System or Generating Unit or Power Generating Module cannot meet the requirements to enable it to be Synchronised .
Output Usable or OU	The forecast value (in MW), profiled across the time period affected by the unplanned or planned Event of the level at which the Genset can export to the Grid Entry Point, or in the case of Embedded Power Stations, to the User System Entry Point. In addition, for a Genset powered by an Intermittent Power Source the forecast value is based upon the Intermittent Power Source being at a level which would enable the Genset to generate at Registered Capacity. For the purpose of OC2 only, the term Output Usable shall include the terms Interconnector Export Capacity and Interconnector Import Capacity where the term Output Usable is being applied to an External Interconnection.
Over-excitation Limiter	Shall have the meaning ascribed to that term in IEC 34-16-1:1991 [equivalent to British Standard BS4999 Section 116.1: 1992].
Panel Chairperson	A person appointed as such in accordance with GR.4.1.
Panel Member	Any of the persons identified as such in GR.4.
Panel Members' Recommendation	The recommendation in accordance with the " Grid Code Review Panel Recommendation Vote ".
Panel Secretary	A person appointed as such in accordance with GR.3.1.2(d).
Part 1 System Ancillary Services	Ancillary Services which are required for System reasons and which must be provided by Users in accordance with the Connection Conditions or European Connection Conditions . An exhaustive list of Part 1 System Ancillary Services is included in that part of CC.8.1 or ECC.8.1 headed Part 1.
Part 2 System Ancillary Services	Ancillary Services which are required for System reasons and which must be provided by a User if the User has agreed to provide them under a Bilateral Agreement . A non-exhaustive list of Part 2 System Ancillary Services is included in that part of CC.8.1 or ECC.8.1 headed Part 2.
Part Load	The condition of a Genset , or Cascade Hydro Scheme which is Loaded but is not running at its Maximum Export Limit.

Peak Current Rating	For a GBGF-I this is the larger of either the: - • The registered maximum steady-state current plus the maximum additional current to supply the Active ROCOF Response Power plus the Defined Active Damping Power; or. • The registered maximum steady-state current plus the maximum additional current to supply the Phase Jump Angle limit power, or. This is the maximum short term total current as declared by the Grid Forming Plant Owner in accordance with PC.A.5.8.1.
Permit for Work for proximity work	In respect of E&W Transmission Systems, a document issued by the Relevant E&W Transmission Licensee or an E&W User in accordance with its respective Safety Rules to enable work to be carried out in accordance with OC8A.8 and which provides for Safety Precautions to be applied and maintained. An example format of a Relevant E&W Transmission Licensee's permit for work is attached as Appendix E to OC8A. In respect of Scottish Transmission Systems, a document issued by a Relevant Scottish Transmission Licensee or a Scottish User in accordance with its respective Safety Rules to enable work to be carried out in accordance with OC8B.8 and which provides for Safety Precautions to be applied and maintained. Example formats of Relevant Scottish Transmission Licensees' permits for work are attached as Appendix E to OC8B.
Partial Shutdown	The same as a Total Shutdown except that all generation has ceased in a separate part of the Total System and there is no electricity supply from External Interconnections or other parts of the Total System to that part of the Total System and, therefore, that part of the Total System is shutdown, with the result that it is not possible for that part of the Total System to begin to function again without The Company's directions relating to System Restoration.
Pending Grid Code Modification Proposal	A Grid Code Modification Proposal in respect of which, at the relevant time, the Authority has not yet made a decision as to whether to direct such Grid Code Modification Proposal to be made pursuant to the ESO Licence (whether or not a Grid Code Modification Report has been submitted in respect of such Grid Code Modification Proposal) or, in the case of a Grid Code Self Governance Proposals, in respect of which the Grid Code Review Panel has not yet voted whether or not to approve.
Phase Jump Angle	The difference in the measured phase angle of the voltage at the Grid Entry Point or User System Entry Point in a given mains half cycle compared with the measured phase angle of the voltage at the Grid Entry Point or User System Entry Point in the previous mains half cycle.
Phase Jump Angle Limit	The maximum Phase Jump Angle when applied to a GBGF-I which will result in a linear controlled response without activating current limiting functions. This is specified for a System angle near to zero which will be considered to be the normal operating angle under steady state conditions.

Phase Jump Angle Withstand	The maximum Phase Jump Angle change when applied to a GBGF-I which will result in the GBGF-I remaining in stable operation with current limiting functions activated. This is specified for a System angle near to zero which will be considered to be the normal operating angle under steady state conditions.
Phase (Voltage) Unbalance	The ratio (in percent) between the rms values of the negative sequence component and the positive sequence component of the voltage.
Physical Notification	Data that describes the BM Participant's best estimate of the expected input or output of Active Power of a BM Unit and/or (where relevant) Generating Unit , except in the instance of a Stage 2 or higher Network Gas Supply Emergency , with the accuracy of the Physical Notification being commensurate with Good Industry Practice .
Planning Code or PC	That portion of the Grid Code which is identified as the Planning Code .
Planned Maintenance Outage	An outage of The Company's electronic data communication facilities as provided for in CC.6.5.8 or ECC.6.5.8 and The Company's associated computer facilities of which normally at least 5 days notice is given, but in any event of which at least twelve hours notice has been given by The Company to the User and which is anticipated to last no longer than 2 hours. The length of such an outage may in exceptional circumstances be extended where at least 24 hours notice has been given by The Company to the User . It is anticipated that normally any planned outage would only last around one hour.
Planned Outage	An outage of a Large Power Station or of part of the National Electricity Transmission System , or of part of a User System , co-ordinated by The Company under OC2 .
Plant	Fixed and movable items used in the generation and/or supply and/or transmission of electricity, other than Apparatus .
Point of Common Coupling	That point on the National Electricity Transmission System electrically nearest to the User installation at which either Demands or Loads are, or may be, connected.
Point of Connection	An electrical point of connection between the National Electricity Transmission System and a User's System .
Point of Isolation	The point on Apparatus (as defined in OC8A.1.6.2 and OC8B.1.7.2) at which Isolation is achieved.
Post-Control Phase	The period following real time operation.

Power Available	A signal prepared in accordance with good industry practice, representing the instantaneous sum of the potential Active Power available from each individual Power Park Unit within the Power Park Module calculated using any applicable combination of electrical or mechanical or meteorological data (including wind speed) measured at each Power Park Unit at a specified time. Power Available shall be a value between 0 MW and Registered Capacity or Maximum Capacity which is the sum of the potential Active Power available of each Power Park Unit within the Power Park Module . A unit that is not generating or supplying power will be considered as not available. For the avoidance of doubt, the Power Available signal would be the Active Power output that a Power Park Module could reasonably be expected to export at the Grid Entry Point or User System Entry Point taking all the above criteria into account including Power Park Unit constraints such as optimisation modes but would exclude a reduction in the Active Power export of the Power Park Module instructed by The Company (for example) for the purposes selecting a Power Park Module to operate in Frequency Sensitive Mode or when an Emergency Instruction has been issued.
Power Factor	The ratio of Active Power to Apparent Power .
Power-Generating Module	Either a Synchronous Power Generating Module , a Synchronous Electricity Storage Module , a Power Park Module or a Non-Synchronous Electricity Storage Module owned or operated by an EU Generator .
Power-Generating Module Document (PGMD)	A document provided by the Generator to The Company for a Type B or Type C Power Generating Module which confirms that the Power Generating Module's compliance with the technical criteria set out in the Grid Code has been demonstrated and provides the necessary data and statements, including a statement of compliance.
Power Generating Module Performance Chart	A diagram showing the Active Power (MW) and Reactive Power (MVar) capability limits within which a Synchronous Power Generating Module or Power Park Module at its Grid Entry Point or User System Entry Point will be expected to operate under steady state conditions.
Power Island	Part of the Total System which is disconnected from, and out of Synchronism with, the rest of the Total System containing Generating Unit(s) at one or more Power Stations , and/or HVDC Systems and/or DC Converters , together with complementary local Demand .
Power Park Module	Any Onshore Power Park Module or Offshore Power Park Module .
Power Park Module Availability Matrix	The matrix described in Appendix 1 to BC1 under the heading Power Park Module Availability Matrix .
Power Park Module Planning Matrix	A matrix in the form set out in Appendix 3 of OC2 showing the combination of Power Park Units within a Power Park Module which would be expected to be running under normal conditions.
Power Park Unit	A Generating Unit within a Power Park Module .
Power Station	An installation comprising one or more Generating Units or Power Park Modules or Power Generating Modules or Electricity Storage Modules (even where sited separately) owned and/or controlled by the same Generator , which may reasonably be considered as being managed as one Power Station .

Power System Difference Model (PSDM)	A digital model that describes changes to the Structural Data of a PSM .
Power System Model (PSM)	A digital model of an electricity transmission and/or distribution system created for the purpose of performing studies. It organises the relevant data into: Structural Data , Situation Data , and Solution Data , and facilitates data exchange between relevant parties.
Power System Stabiliser or PSS	Equipment controlling the Exciter output via the voltage regulator in such a way that power oscillations of the synchronous machines are dampened. Input variables may be speed, frequency or power (or a combination of these).
Preface	The preface to the Grid Code (which does not form part of the Grid Code and therefore is not binding).
Preliminary Notice	A notice in writing, sent by The Company both to all Users identified by it under OC12.4.2.1 and to the Test Proposer , notifying them of a proposed System Test .
Preliminary Project Planning Data	Data relating to a proposed User Development at the time the User applies for a CUSC Contract but before an offer is made and accepted.
Primary Response	The automatic increase in Active Power output of a Genset or, as the case may be, the decrease in Active Power Demand in response to a System Frequency fall. This increase in Active Power output or, as the case may be, the decrease in Active Power Demand must be in accordance with the provisions of the relevant Ancillary Services Agreement which will provide that it will be released increasingly with time over the period 0 to 10 seconds from the time of the start of the Frequency fall on the basis set out in the Ancillary Services Agreement and fully available by the latter, and sustainable for at least a further 20 seconds. The interpretation of the Primary Response to a – 0.5 Hz frequency change is shown diagrammatically in Figure CC.A.3.2 and Figure ECC.A.3.2
Prioritisation Category	Prioritisation Category has the meaning given to that term by the Authority Guidance on Code Modification Prioritisation .
Prioritisation Criteria	Prioritisation Criteria has the meaning given to that term by the Authority Guidance on Code Modification Prioritisation .
Private Network	A network which connects to a Network Operator's System and that network belongs to a User who is not classified as a Generator , Network Operator or Non-Embedded Customer .
Programming Phase	The period between the Operational Planning Phase and the Control Phase . It starts at the 8 weeks ahead stage and finishes at 17:00 hours on the day ahead of real time.
Proposal Notice	A notice submitted to The Company by a User which would like to undertake a System Test .

Proposal Report	A report submitted by the Test Panel which contains: (a) proposals for carrying out a System Test (including the manner in which the System Test is to be monitored); (b) an allocation of costs (including un-anticipated costs) between the affected parties (the general principle being that the Test Proposer will bear the costs); and (c) such other matters as the Test Panel considers appropriate. The report may include requirements for indemnities to be given in respect of claims and losses arising from a System Test.
Proposed Implementation Date	The proposed date(s) for the implementation of a Grid Code Modification Proposal or Workgroup Alternative Grid Code Modification such date(s) to be either (i) described by reference to a specified period after a direction from the Authority approving the Grid Code Modification Proposal or Workgroup Alternative Grid Code Modification or (ii) a Fixed Proposed Implementation Date.
Proposer	In relation to a particular Grid Code Modification Proposal, the person who makes such Grid Code Modification Proposal.
Protection	The provisions for detecting abnormal conditions on a System and initiating fault clearance or actuating signals or indications.
Protection Apparatus	A group of one or more Protection relays and/or logic elements designated to perform a specified Protection function.
PSM Change Document	A document associated with a submission describing changes to the NETS or Network Operator's system or its operation and changes to the assumptions, as described in the PSM Scenario Document, used in the creation of a Solved PSM and/or the associated schedules forming part of the periodic information exchanges. Additional detail is provided in PC.G.6.
PSM Implementation Date	1st January 2028 unless otherwise agreed in accordance with PC.3.1.1.2.
PSM Interface Node	A point in an interconnected electrical system model that defines the boundary either side of which different parties are responsible for data.
PSM Scenario Document	A document associated with a submission which provides information relating to the assumptions used in preparation of the Solved PSM and the associated schedules. Additional detail is provided in PC.G.5.
Pumped Storage	A hydro unit in which water can be raised by means of pumps and stored to be used for the generation of electrical energy.
Pumped Storage Generating Unit	A Generating Unit at a Pumped Storage Plant.
Pumped Storage Generator	A Generator which owns and/or operates any Pumped Storage Plant.
Pumped Storage Plant	A Power Station comprising Pumped Storage Generating Units.

Pumped Storage Unit	A Generating Unit within a Pumped Storage Plant . For the avoidance of doubt, a Pumped Storage Unit is not considered to form part of an Electricity Storage Unit unless specifically declared by the Generator .
Purchase Contracts	A final and binding contract for the purchase of the Main Plant and Apparatus .
Q/Pmax	The ratio of Reactive Power to the Maximum Capacity. The relationship between Power Factor and Q/Pmax is given by the formula:- $\text{Power Factor} = \cos \left[\arctan \left[\frac{Q}{P_{\max}} \right] \right]$ For example, a Power Park Module with a Q/P value of +0.33 would equate to a Power Factor of $\cos(\arctan 0.33) = 0.95$ Power Factor lag.
Quick Resynchronisation Capability	The capability of a Type C or Type D Power Generating Module as defined in ECC.6.3.5.6. For the avoidance of doubt this requirement is only mandatory for EU Code Generators who own or operate a Type C or Type D Power Generating Module but does not preclude owners of other generation electing to provide the capability.
Quick Resynchronisation Unit Test	A test undertaken on Generating Unit forming part of a Type C or Type D Power Generating Module as detailed in OC5.7.2.5 necessary to determine its ability to demonstrate a Quick Resynchronisation Capability .
Range CCGT Module	A CCGT Module where there is a physical connection by way of a steam or hot gas main between that CCGT Module and another CCGT Module or other CCGT Modules , which connection contributes (if open) to efficient modular operation, and which physical connection can be varied by the operator.
Rated Field Voltage	Shall have the meaning ascribed to that term in IEC 34-16-1:1991 [equivalent to British Standard BS4999 Section 116.1: 1992].

Rated MW	The “rating-plate” MW output of a Power Generating Module, Generating Unit, Power Park Module, Electricity Storage Module, HVDC Converter or DC Converter, being: (a) that output up to which the Generating Unit was designed to operate (Calculated as specified in British Standard BS EN 60034 – 1: 1995); or (b) the nominal rating for the MW output of a Power Park Module or Power Generating Module being the maximum continuous electric output power which the Power Park Module or Power Generating Module was designed to achieve under normal operating conditions; or (c) the nominal rating for the MW import capacity and export capacity (if at a DC Converter Station or HVDC Converter Station) of a DC Converter or HVDC Converter. (d) in an importing mode, is that input up to which an Electricity Storage Module was designed to operate being the maximum continuous electric input which the Electricity Storage Module was designed to achieve under normal operating conditions. In an exporting mode is:- (i) that output up to which the Synchronous Electricity Storage Unit was designed to operate (Calculated as specified in British Standard BS EN 60034 – 1: 1995); or (ii) the nominal rating for the MW output of a Non-Synchronous Electricity Storage Module being the maximum continuous electric output power which the Non-Synchronous Electricity Storage Module was designed to achieve under normal operating conditions.
Reactive Despatch Instruction	Has the meaning set out in the CUSC .
Reactive Despatch Network Restriction	A restriction placed upon an Embedded Power Generating Module, Embedded Generating Unit, Embedded Power Park Module or DC Converter at an Embedded DC Converter Station or HVDC Converter at an Embedded HVDC Converter Station by the Network Operator that prevents the Generator or DC Converter Station owner or HVDC System Owner in question (as applicable) from complying with any Reactive Despatch Instruction with respect to that Power Generating Module, Generating Unit, Power Park Module or DC Converter at a DC Converter Station or HVDC Converter at a HVDC Converter Station , whether to provide MVAr over the range referred to in CC 6.3.2, ECC.6.3.2 or otherwise.
Reactive Despatch to Zero MVar Network Restriction	A Reactive Despatch Network Restriction which prevents an Embedded Power Generating Module, an Embedded Generating Unit, Embedded Power Park Module, Embedded HVDC System, HVDC Converter at an Embedded HVDC Converter Station or DC Converter at an Embedded DC Converter Station from supplying power at zero MVar at all Active Power output levels up to and including Rated MW at the Grid Entry Point (or User System Entry Point if Embedded).
Reactive Energy	The integral with respect to time of the Reactive Power .

Reactive Power	The product of voltage and current and the sine of the phase angle between them measured in units of voltamperes reactive and standard multiples thereof, ie: 1000 VAr = 1 kVAr 1000 kVAr = 1 MVar
Record of Inter-System Safety Precautions or RISSP	A written record of inter-system Safety Precautions to be compiled in accordance with the provisions of OC8 .
Regenerative Braking	A method of braking in which energy is extracted from the parts braked, which may be returned directly to the System and the purpose of the braking is motion control.

Registered Capacity	(a) In the case of a Generating Unit other than that forming part of a CCGT Module or Power Park Module or Power Generating Module, the normal full load capacity of a Generating Unit as declared by the Generator, less the MW consumed by the Generating Unit through the Generating Unit's Unit Transformer when producing the same (the resultant figure being expressed in whole MW, or in MW to one decimal place). (b) In the case of a CCGT Module or Power Park Module owned or operated by a GB Generator, the normal full load capacity of the CCGT Module or Power Park Module (as the case may be) as declared by the GB Generator, being the Active Power declared by the GB Generator as being deliverable by the CCGT Module or Power Park Module at the Grid Entry Point (or in the case of an Embedded CCGT Module or Power Park Module, at the User System Entry Point), expressed in whole MW, or in MW to one decimal place. For the avoidance of doubt Maximum Capacity would apply to Power Generating Modules which form part of a Large, Medium or Small Power Station. (c) In the case of a Power Station, the maximum amount of Active Power deliverable by the Power Station at the Grid Entry Point (or in the case of an Embedded Power Station at the User System Entry Point), as declared by the Generator, expressed in whole MW, or in MW to one decimal place. The maximum Active Power deliverable is the maximum amount deliverable simultaneously by the Power Generating Modules and/or Generating Units and/or CCGT Modules and/or Power Park Modules less the MW consumed by the Power Generating Modules and/or Generating Units and/or CCGT Modules in producing that Active Power and forming part of a Power Station. (d) In the case of a DC Converter at a DC Converter Station or HVDC Converter at an HVDC Converter Station, the normal full load amount of Active Power transferable from a DC Converter or HVDC Converter at the Onshore Grid Entry Point (or in the case of an Embedded DC Converter Station or an Embedded HVDC Converter Station at the User System Entry Point), as declared by the DC Converter Station owner or HVDC System Owner, expressed in whole MW, or in MW to one decimal place. (e) In the case of a DC Converter Station or HVDC Converter Station, the maximum amount of Active Power transferable from a DC Converter Station or HVDC Converter Station at the Onshore Grid Entry Point (or in the case of an Embedded DC Converter Station or Embedded HVDC Converter Station at the User System Entry Point), as declared by the DC Converter Station owner or HVDC System Owner, expressed in whole MW, or in MW to one decimal place. (f) In the case of an Electricity Storage Module, the normal full load amount of Active Power transferable from an Electricity Storage Module at the Grid Entry Point (or in the case of an Embedded Electricity Storage Module at the User System Entry Point), as declared by the Generator, expressed in whole MW, or in MW to one decimal place.
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Registered Data	Those items of Standard Planning Data and Detailed Planning Data which upon connection become fixed (subject to any subsequent changes).
Registered Import Capability	In the case of a DC Converter Station or HVDC Converter Station containing DC Converters or HVDC Converters connected to an External System, the maximum amount of Active Power transferable into a DC Converter Station or HVDC Converter Station at the Onshore Grid Entry Point (or in the case of an Embedded DC Converter Station or Embedded HVDC Converter Station at the User System Entry Point), as declared by the DC Converter Station owner or HVDC System Owner, expressed in whole MW. In the case of a DC Converter or HVDC Converter connected to an External System and in a DC Converter Station or HVDC Converter Station, the normal full load amount of Active Power transferable into a DC Converter or HVDC Converter at the Onshore Grid Entry Point (or in the case of an Embedded DC Converter Station or Embedded HVDC Converter Station at the User System Entry Point), as declared by the DC Converter owner or HVDC System Owner, expressed in whole MW. In the case of an Electricity Storage Module, the maximum amount of Active Power transferable into an Electricity Storage Module at the Grid Entry Point (or in the case of an Embedded Electricity Storage Module at the User System Entry Point), as declared by the Generator, expressed in whole MW.
Regulations	The Utilities Contracts Regulations 1996, as amended from time to time.
Regulated Sections	Parts of the Grid Code that are referenced in Governance Rules Annex GR.B as amended from time to time with the approval of the Authority .
Reheater Time Constant	Determined at Registered Capacity , the reheater time constant will be construed in accordance with the principles of the IEEE Committee Report "Dynamic Models for Steam and Hydro Turbines in Power System Studies" published in 1973 which apply to such phrase.
Rejected Grid Code Modification Proposal	A Grid Code Modification Proposal in respect of which the Authority has decided not to direct The Company to modify the Grid Code pursuant to the ESO Licence in the manner set out herein or, in the case of a Grid Code Self Governance Proposals , in respect of which the Grid Code Review Panel has voted not to approve.
Related Person	Means, in relation to an individual, any member of their immediate family, their employer (and any former employer of theirs within the previous 12 months), any partner with whom they are in partnership, and any company or Affiliate of a company in which they or any member of their immediate family controls more than 20% of the voting rights in respect of the shares of the company;
Relevant E&W Transmission Licensee	As the context requires NGET , and/or a Competitively Appointed Transmission Licensee with Plant and Apparatus located in NGET's Transmission Area and/or an E&W Offshore Transmission Licensee .
Relevant Party	Has the meaning given in GR15.10(a).

Relevant Scottish Transmission Licensee	As the context requires SPT and/or SHETL , and/or a Competitively Appointed Transmission Licensee with Plant and Apparatus located in either SPT's or SHETL's Transmission Area and/or a Scottish Offshore Transmission Licensee .
Relevant Transmission Licensee	Means National Grid Electricity Transmission plc (NGET) in its Transmission Area or SP Transmission plc (SPT) in its Transmission Area or Scottish Hydro-Electric Transmission plc (SHETL) in its Transmission Area or any Offshore Transmission Licensee in its Transmission Area or any Competitively Appointed Transmission Licensee with Plant and Apparatus located in NGET's , SPT's or SHETL's Transmission Area as appropriate.
Relevant Unit	As defined in the STC , Schedule 3.
Remote End HVDC Converter Station	An HVDC Converter Station which forms part of an HVDC System and is not directly connected to the AC part of the GB Synchronous Area .
Remote Transmission Assets	Any Plant and Apparatus or meters owned by NGET which: (a) are Embedded in a User System and which are not directly connected by Plant and/or Apparatus owned by NGET to a sub-station owned by NGET ; and (b) are by agreement between NGET and such User operated under the direction and control of such User .
Replacement Reserves (RR)	Means, in the context of Balancing Services , the Active Power reserves available to restore or support the required level of FRR to be prepared for additional system imbalances, including generation reserves;
Requesting Safety Co-ordinator	The Safety Co-ordinator requesting Safety Precautions .
Responsible Engineer/Operator	A person nominated by a User to be responsible for System control.
Responsible Manager	A manager who has been duly authorised by a User or a Relevant Transmission Licensee to sign Site Responsibility Schedules on behalf of that User or Relevant Transmission Licensee as the case may be.
Restoration Contractor	An Anchor Restoration Contractor or a Top Up Restoration Contractor .
Restoration Plan	Either a Local Joint Restoration Plan , a Distribution Restoration Zone Plan or an Offshore Local Joint Restoration Plan as the context requires.
Restoration Service Provider	A User or a party with a legal or contractual obligation to provide a service contributing to one or several measures of the System Restoration Plan .
Restoration Service Test	A test carried out on a Plant to confirm it has an Anchor Plant Capability or Top Up Restoration Capability .

Re-synchronisation	The bringing of parts of the System which have become Out of Synchronism with any other System back into Synchronism , and like terms shall be construed accordingly.
RR Acceptance	The results of the TERRE auction for each BM Participant .
Restricted	Applies to a TERRE Bid which has been marked so that it will be passed to the TERRE Central Platform but will not be used in the auction.
ROCOF	Rate of Change of Frequency
RR Instruction	Replacement Reserve Instruction – used for instructing BM Participants after the results of the TERRE auction. An RR Instruction has the same format as a Bid-Offer Acceptance but has type field indicating it is for TERRE .
Safety Co-ordinator	A person or persons nominated by a Relevant E&W Transmission Licensee and each E&W User in relation to Connection Points (or in the case of OTSUA operational prior to the OTSUA Transfer Time, Transmission Interface Points) on an E&W Transmission System and/or by the Relevant Scottish Transmission Licensee and each Scottish User in relation to Connection Points (or in the case of OTSUA operational prior to the OTSUA Transfer Time, Transmission Interface Points) on a Scottish Transmission System to be responsible for the co-ordination of Safety Precautions at each Connection Point (or in the case of OTSUA operational prior to the OTSUA Transfer Time, Transmission Interface Points) when work (which includes testing) is to be carried out on a System which necessitates the provision of Safety Precautions on HV Apparatus (as defined in OC8A.1.6.2 and OC8B.1.7.2), pursuant to OC8 .
Safety From The System	That condition which safeguards persons when work is to be carried out on or near a System from the dangers which are inherent in the System .
Safety Key	A key unique at the Location capable of operating a lock which will cause an Isolating Device and/or Earthing Device to be Locked .
Safety Log	A chronological record of messages relating to safety co-ordination sent and received by each Safety Co-ordinator under OC8 .
Safety Precautions	Isolation and/or Earthing .
Safety Rules	The rules of the Relevant Transmission Licensee or a User that seek to ensure that persons working on Plant and/or Apparatus to which the rules apply are safeguarded from hazards arising from the System .
Scottish Offshore Transmission System	An Offshore Transmission System with an Interface Point in Scotland.
Scottish Offshore Transmission Licensee	A person who owns or operates a Scottish Offshore Transmission System pursuant to a Transmission Licence .

Scottish Transmission System	Collectively SPT's Transmission System and SHETL's Transmission System , any Competitively Appointed Transmission Licensee's Transmission System with Plant and Apparatus located in SPT's or SHETL's Transmission Area and any Scottish Offshore Transmission Systems .
Scottish User	A User in Scotland or any Offshore User who owns or operates Plant and/or Apparatus connected (or which will at the OTSUA Transfer Time be connected) to a Scottish Offshore Transmission System .
Secondary BM Unit	Has the same meaning set out in the BSC .
Secondary Response	The automatic increase in Active Power output of a Genset or, as the case may be, the decrease in Active Power Demand in response to a System Frequency fall. This increase in Active Power output or, as the case may be, the decrease in Active Power Demand must be in accordance with the provisions of the relevant Ancillary Services Agreement which will provide that it will be fully available by 30 seconds from the time of the start of the Frequency fall and be sustainable for at least a further 30 minutes. The interpretation of the Secondary Response to a -0.5 Hz frequency change is shown diagrammatically in Figure CC.A.3.2 or Figure ECC.A.3.2.
Secretary of State	Has the same meaning as in the Act .
Secured Event	Has the meaning set out in the Security and Quality of Supply Standard .
Security and Quality of Supply Standard (SQSS)	The version of the document entitled 'Security and Quality of Supply Standard' established pursuant to the Transmission Licence and the ESO Licence in force at the time of entering into the relevant Bilateral Agreement .
Self-Governance Criteria	A proposed Modification that, if implemented, (a) is unlikely to have a material effect on: (i) existing or future electricity consumers; and (ii) competition in the generation, storage, distribution, or supply of electricity or any commercial activities connected with the generation, storage, distribution or supply of electricity; and (iii) the operation of the National Electricity Transmission System; and (iv) matters relating to sustainable development, safety or security of supply, or the management of market or network emergencies; and (v) the Grid Code's governance procedures or the Grid Code's modification procedures, and (b) is unlikely to discriminate between different classes of Users. (c) other than where the modification meets the Fast Track Criteria, will not constitute an amendment to the Regulated Sections of the Grid Code.

Self-Governance Modifications	A Grid Code Modification Proposal that does not fall within the scope of a Significant Code Review and that meets the Self-Governance Criteria or which the Authority directs is to be treated as such any direction under GR.24.4.
Self-Governance Statement	The statement made by the Grid Code Review Panel and submitted to the Authority: (a) confirming that, in its opinion, the Self-Governance Criteria are met and the proposed Grid Code Modification Proposal is suitable for the Self-Governance route; and (b) providing a detailed explanation of the Grid Code Review Panel's reasons for that opinion.
Setpoint Voltage	The value of voltage at the Grid Entry Point , or User System Entry Point if Embedded , on the automatic control system steady state operating characteristic, as a percentage of the nominal voltage, at which the transfer of Reactive Power between a Power Park Module , DC Converter , HVDC Converter or Non-Synchronous Generating Unit and the Transmission System , or Network Operator's system if Embedded , is zero.
Settlement Period	A period of 30 minutes ending on the hour and half-hour in each hour during a day.
SF₆ Gas Zone	A segregated zone surrounding electrical conductors within a casing containing SF ₆ gas.
SHETL	Scottish Hydro-Electric Transmission plc.
Shutdown	In the case of a Generating Unit is the condition of a Generating Unit where the generator rotor is at rest or on barring or equivalent. In the case of an HVDC System or DC Converter Station, is the condition of an HVDC System or DC Converter Station where the HVDC System or DC Converter Station is de-energised and therefore not importing or exporting Apparent Power to or from the Total System. In the case of Auxiliaries, the state where they are de-energised and not capable of fulfilling their function until restarted or resupplied.
Significant Code Review	Means the period commencing on the start date of a Significant Code Review as stated in the notice issued by the Authority , and ending in the circumstances described in GR.16.6 or GR.16.7, as appropriate.
Significant Code Review Phase	Means the period commencing on the start date of a Significant Code Review as stated in the notice issued by the Authority , and ending in the circumstances described in GR.16.6 or GR.16.7, as appropriate.
Significant Event	An Event , as defined in OC3.4.1.

Significant Incident	An Event which either: (a) was notified by a User to The Company under OC7, and which The Company considers has had or may have had a significant effect on the National Electricity Transmission System, and The Company requires the User to report that Event in writing in accordance with OC10 and notifies the User accordingly; or (b) was notified by The Company to a User under OC7, and which that User considers has had or may have had a significant effect on that User's System, and that User requires The Company to report that Event in writing in accordance with the provisions of OC10 and notifies The Company accordingly.
Simultaneous Tap Change	A tap change implemented on the generator step-up transformers of Synchronised Gensets , effected by Generators in response to an instruction from The Company issued simultaneously to the relevant Power Stations . The instruction, preceded by advance notice, must be effected as soon as possible, and in any event within one minute of receipt from The Company of the instruction.
Single Intraday Coupling	The continuous process where collected orders are matched and cross-zonal capacity is allocated simultaneously for different bidding zones in the intraday market.
Single Line Diagram	A schematic representation of a three-phase network in which the three phases are represented by single lines. The diagram shall include (but not necessarily be limited to) busbars, overhead lines, underground cables, power transformers and reactive compensation equipment. It shall also show where Large Power Stations are connected, and the points at which Demand is supplied.
Single Point of Connection	A single Point of Connection , with no interconnection through the User's System to another Point of Connection .
Site Common Drawings	Drawings prepared for each Connection Site (and in the case of OTSDUW, Transmission Interface Site) which incorporate Connection Site (and in the case of OTSDUW, Transmission Interface Site) layout drawings, electrical layout drawings, common protection/ control drawings and common services drawings.
Site Responsibility Schedule	A schedule containing the information and prepared on the basis of the provisions set out in Appendix 1 of the CC and Appendix E1 of the ECC .
Situation Data	Data in a PSM representing an operational state of an electricity system, including demand and generation output and the operational position of relevant switching devices.
Slope	The ratio of the steady state change in voltage, as a percentage of the nominal voltage, to the steady state change in Reactive Power output, in per unit of Reactive Power capability. For the avoidance of doubt, the value indicates the percentage voltage reduction that will result in a 1 per unit increase in Reactive Power generation.
Small Participant	Has the meaning given in the CUSC .

Small Power Station	A Power Station which is (a) directly connected to: (i) NGET's Transmission System where such Power Station has a Registered Capacity of less than 50 MW; or (ii) SPT's Transmission System where such Power Station has a Registered Capacity of less than 30 MW; or (iii) SHETL's Transmission System where such a Power Station has a Registered Capacity of less than 10 MW; or (iv) an Offshore Transmission System where such Power Station has a Registered Capacity of less than 10 MW; or, (b) Embedded within a User System (or part thereof) where such User System (or part thereof) is connected under normal operating conditions to: (i) NGET's Transmission System and such Power Station has a Registered Capacity of less than 50 MW; or (ii) SPT's Transmission System and such Power Station has a Registered Capacity of less than 30 MW; or (iii) SHETL's Transmission System and such Power Station has a Registered Capacity of less than 10 MW; or, (c) Embedded within a User System (or part thereof) where the User System (or part thereof) is not connected to the National Electricity Transmission System, although such Power Station is in: (i) NGET's Transmission Area and such Power Station has a Registered Capacity of less than 50 MW; or (ii) SPT's Transmission Area and such Power Station has a Registered Capacity of less than 30 MW; or (iii) SHETL's Transmission Area and such Power Station has a Registered Capacity of less than 10 MW; For the avoidance of doubt, a Small Power Station could comprise of Type A, Type B, Type C or Type D Power Generating Modules.
Solved PSM	A PSM which includes Structural Data, Situation Data , and Solution Data .
Solution Data	Data in a PSM comprising the results of a steady-state power flow calculation and/or short circuit calculation, together with topology, voltage, and power flow data representing a steady-state solution using coordinated Structural Data and Situation Data .
Space Weather Advisory Statement	A statement issued by The Company to advise of a space weather related matter for information and further consideration.
Space Weather Cancellation Notification	A notification issued by The Company following Met Office guidance signalling that a space weather situation has concluded.

Space Weather Cessation Notification	A notification issued by The Company following Met Office guidance signalling a return to a Space Weather Prepare Notification level.
Space Weather Experienced Notification	A notification issued by The Company following Met Office guidance that impacts (consistent with a space weather event) have been seen or experienced in GB . This triggers the preparation and issuing of Space Weather Outcome Statements .
Space Weather Imminent Notification	A notification issued by The Company following Met Office guidance of imminent space weather of a nature and anticipated level of G5 (using the Met Office ranking). A Space Weather Imminent Notification is likely to be issued 20 to 60 minutes ahead of a space weather event being forecast to impact the NETS .
Space Weather Outcome Statement	A statement that is issued by a User to The Company where, following the issuing of a Space Weather Experienced Notification , their Plant or Apparatus has seen or experienced impacts that they believe, at the time, are or may be of a nature consistent with a space weather event.
Space Weather Output Usable Declaration	A declaration of the Output Usable that would apply to a Generator in respect of their Generating Unit and/or Power-Generating Module and/or Power Park Module , or Interconnector Owner in respect of their External Interconnection Circuits or Restoration Contractor in respect of their Plant and Apparatus following the issue of a Space Weather Imminent Notification until such time as specified by the Generator , Interconnector Owner or Restoration Contractor after either a Space Weather Cessation Notification or a Space Weather Cancellation Notification being issued by The Company .
Space Weather Prepare Notification	A notification issued by The Company following Met Office guidance of space weather related activity that is of a nature and anticipated level of G5 (using the Met Office ranking). A Space Weather Prepare Notification is likely to be issued 12 to 36 hours ahead of a space weather event being forecast to impact the NETS .
Speeder Motor Setting Range	The minimum and maximum no-load speeds (expressed as a percentage of rated speed) to which the turbine is capable of being controlled, by the speeder motor or equivalent, when the Generating Unit terminals are on open circuit.
SPT	SP Transmission plc.
Standard Contract Terms	The standard terms and conditions applicable to Ancillary Services provided by Demand Response Providers and published on the Website from time to time.
Standard Modifications	A Grid Code Modification Proposal that does not fall within the scope of a Significant Code Review subject to any direction by the Authority pursuant to GR.16.3 and GR.16.4, nor meets the Self-Governance Criteria subject to any direction by the Authority pursuant to GR.24.4 and in accordance with any direction under GR.24.2. A Grid Code Modification Proposal that constitutes an amendment to the Regulated Sections of the Grid Code shall be a Standard Modification except where it is an Urgent Modification or where it meets the Fast Track Criteria .

Standard Planning Data	The general data required by The Company under the PC . It is generally also the data which The Company requires from a User in an application for a CUSC Contract , as reflected in the PC .
Standard Product	Means a harmonised balancing product defined by all EU TSOs for the exchange of balance services.
Specific Product	Means in the context of Balancing Services a product that is not a standard product.
Structural Data	Data in a PSM representing the characteristics of electricity system assets, including their capabilities and connectivity.
Start Time	The time named as such in an instruction issued by The Company pursuant to the BC .
Start-Up	In the case of a Generating Unit is the action of bringing a Generating Unit from Shutdown to Synchronous Speed . In the case of an HVDC System or DC Converter Station , is the action of bringing the HVDC System or DC Converter Station from Shutdown to a state where it is energised.
Statement of Readiness	Has the meaning set out in the Bilateral Agreement and/or Construction Agreement .
Station Board	A switchboard through which electrical power is supplied to the Auxiliaries of a Power Station , and which is supplied by a Station Transformer . It may be interconnected with a Unit Board .
Station Transformer	A transformer supplying electrical power to the Auxiliaries of (a) a Power Station , which is not directly connected to the Generating Unit terminals (typical voltage ratios being 132/11 kV or 275/11 kV), or (b) a DC Converter Station or HVDC Converter Station .
STC Committee	The committee established under the STC .
Steam Unit	A Generating Unit whose prime mover converts the heat-energy in steam to mechanical energy.
Storage User	A Generator who owns or operates one or more Electricity Storage Modules . For the avoidance of doubt: (a) Assimilated Law (Commission Regulation (EU) 2016/631, Commission Regulation (EU) 2016/1388 and Commission Regulation (EU) 2016/1485) shall not apply to Storage Users ; and (b) the European Connection Conditions (ECC's) shall apply to Storage Users on the basis set out in Paragraph ECC1.1(d).
Subtransmission PSM	A PSM with the scope as set out in PC.9.4.1.

Subtransmission System	The part of a User's System which operates at a single transformation below the voltage of the relevant Transmission System .	
Substantial Modification	A Modification in relation to modernisation or replacement of the User's Main Plant and Apparatus which impacts its technical capabilities, which, following notification by the relevant User to The Company , results in substantial amendment to the Bilateral Agreement .	
Supergrid Voltage	Any voltage greater than 200 kV.	
Supplier	(a) A person supplying electricity under an Electricity Supply Licence; or (b) A person supplying electricity under exemption under the Act; in each case acting in its capacity as a supplier of electricity to Customers in Great Britain.	
Surplus	A MW figure equal to the total Output Usable: (a) minus the forecast of Active Power Demand, and (b) minus the Operational Planning Margin.	
Switch-based Model	A PSM that includes all relevant switching devices. Such a model can be used to represent different system topologies, compared to a node and branch model which generally only represents a single system topology.	
Synchronised	(a) The condition where an incoming Power Generating Module, Generating Unit or Power Park Module or DC Converter or HVDC Converter or System is connected to the busbars of another System so that the Frequencies and phase relationships of that Power Generating Module, Generating Unit, Power Park Module, DC Converter, HVDC Converter or System, as the case may be, and the System to which it is connected are identical, like terms shall be construed accordingly e.g. "Synchronism". (b) The condition where an importing BM Unit is consuming electricity.	
Synchronous Area	An area covered by synchronously interconnected Transmission Licensees , such as the Synchronous Areas of Continental Europe, Great Britain, Ireland-Northern Ireland and Nordic and the power systems of Lithuania, Latvia and Estonia, together referred to as 'Baltic' which are part of a wider Synchronous Area .	
Synchronous Electricity Storage Module	A Synchronous Power Generating Module which can convert or re-convert electrical energy from another source of energy such that the frequency of the generated voltage, the rotor speed and the frequency of network voltage are in a constant ratio and thus in synchronism. For the avoidance of doubt a Synchronous Electricity Storage Module could comprise of one or more Synchronous Electricity Storage Units .	
Synchronous Electricity Storage Unit	A Synchronous Generating Unit which can supply or absorb electrical energy such that the frequency of the generated voltage, the rotor speed and the frequency of the equipment are in constant ratio and thus in synchronism with the network.	

Synchronising Generation	The amount of MW (in whole MW) produced at the moment of synchronising.
Synchronising Group	A group of two or more Gensets) which require a minimum time interval between their Synchronising or De-Synchronising times.
Synchronous Compensation	The operation of rotating synchronous Apparatus for the specific purpose of either the generation or absorption of Reactive Power .
Synchronous Compensation Equipment	Apparatus which has the function of providing Synchronous Compensation . For the avoidance of doubt, one or more Synchronous Compensation units would not constitute an Electricity Storage Module unless it could be operated in a controllable manner.
Synchronous Electricity Storage Module	A Synchronous Power Generating Module which can convert and reconvert electrical energy from another source of energy such that the frequency of the generated voltage, the rotor speed and the frequency of network voltage are in a constant ratio and thus in synchronism. For the avoidance of doubt a Synchronous Electricity Storage Module could comprise of one or more Synchronous Electricity Storage Units .
Synchronous Electricity Storage Unit	A Synchronous Generating Unit which can supply and absorb electrical energy such that the frequency of the generated voltage, the rotor speed and the frequency of the equipment are in constant ratio and thus in synchronism with the network.
Synchronous Flywheel	An item of synchronously rotating Plant for the specific purpose of contributing inertia to the System . One or more Synchronous Flywheels would not be considered to form an Electricity Storage Module unless it could be operated in a controllable manner for its AC input and output power.
Synchronous Generating Unit	Any Onshore Synchronous Generating Unit or Offshore Synchronous Generating Unit .
Synchronous Generating Unit Performance Chart	A diagram showing the Active Power (MW) and Reactive Power (MVA _r) capability limits within which a Synchronous Generating Unit at its stator terminals (which is part of a Synchronous Power Generating Module) will be expected to operate under steady state conditions.
Synchronous Power-Generating Module	An indivisible set of installations which can convert or re-convert electrical energy from another source of energy such that the frequency of the supplied voltage, the rotor speed and the frequency of network voltage are in a constant ratio and thus in synchronism. For the avoidance of doubt, a Synchronous Power Generating Module could comprise of one or more Synchronous Generating Units or one or more Synchronous Electricity Storage Units .
Synchronous Power Generating Module Matrix	The matrix described in Appendix 1 to BC1 under the heading Synchronous Power Generating Module Matrix .
Synchronous Power Generating Module Planning Matrix	A matrix in the form set out in Appendix 2 of OC2 showing the combination of Synchronous Generating Units within a Synchronous Power Generating Module which would be running in relation to any given MW output.

Synchronous Power Generating Unit	Has the same meaning as a Synchronous Generating Unit and would be considered to be part of a Power Generating Module .
Synchronous Speed	That speed required by a Generating Unit to enable it to be Synchronised to a System .
System	Any User System and/or the National Electricity Transmission System , as the case may be.
System Ancillary Services	Collectively Part 1 System Ancillary Services and Part 2 System Ancillary Services .
System Constraint	A limitation on the use of a System due to lack of transmission capacity or other System conditions.
System Constrained Capacity	That portion of Registered Capacity or Registered Import Capacity not available due to a System Constraint .
System Constraint Group	A part of the National Electricity Transmission System which, because of System Constraints , is subject to limits of Active Power which can flow into or out of (as the case may be) that part.
System Defence Plan	A document prepared by The Company , as published on its Website , outlining how the requirements of the “defence plan”, as provided for by Assimilated Law (Commission Regulation (EU) 2017/2196), has been implemented within the GB Synchronous Area .
System Fault Dependability Index or Dp	A measure of the ability of Protection to initiate successful tripping of circuit-breakers which are associated with a faulty item of Apparatus. It is calculated using the formula: $Dp = 1 - F_1/A$ Where: A = Total number of System faults F₁ = Number of System faults where there was a failure to trip a circuit-breaker.
System Incidents Report	A report submitted to the GCRP on a monthly basis, containing, but not limited to, a list of Significant Events , as detailed in OC3.4.1.
System Margin	The margin in any period between (a) the sum of Maximum Export Limits and (b) forecast Demand and the Operating Margin, for that period.
System Negative Reserve Active Power Margin or System NRAPM	That margin of Active Power sufficient to allow the largest loss of Load at any time.
System Operator - Transmission Owner Code or STC	Has the meaning set out in the ESO Licence .
System Restoration	The procedure necessary for a recovery from a Total Shutdown or Partial Shutdown .

System Restoration Region	Those regions of the Total System as defined in Appendix 1 of OC9.
System Restoration Plan	A document prepared by The Company , as published on its Website , outlining how the requirements of the “restoration plan”, as defined in Assimilated Law (Commission Regulation (EU) 2017/2196), has been implemented within the GB Synchronous Area .
System Telephony	An alternative method by which a User’s Responsible Engineer/Operator , the relevant Transmission Licensees’ Control Engineers and The Company’s Control Engineer(s) speak to one and another for the purposes of control of the Total System in both normal operating conditions and where practicable, emergency operating conditions.
System Tests	Tests which involve simulating conditions, or the controlled application of irregular, unusual or extreme conditions, on the Total System , or any part of the Total System , but which do not include commissioning or recommissioning tests or any other tests of a minor nature.
System to Demand Intertrip Scheme	An intertrip scheme which disconnects Demand when a System fault has arisen to prevent abnormal conditions occurring on the System .
System to Generator Operational Intertripping	A Balancing Service involving the initiation by a System to Generator Operational Intertripping Scheme of automatic tripping of the User’s circuit breaker(s), or Relevant Transmission Licensee’s circuit breaker(s) where agreed by The Company , the User and the Relevant Transmission Licensee , resulting in the tripping of BM Unit(s) or (where relevant) Generating Unit(s) comprised in a BM Unit to prevent abnormal system conditions occurring, such as over voltage, overload, System instability, etc, after the tripping of other circuit-breakers following power System fault(s).
System to Generator Operational Intertripping Scheme	A System to Generating Unit or System to CCGT Module or System to Power Park Module or System to Power Generating Module or System to Electricity Storage Module Intertripping Scheme forming a condition of connection and specified in Appendix F3 of the relevant Bilateral Agreement , being either a Category 1 Intertripping Scheme , Category 2 Intertripping Scheme , Category 3 Intertripping Scheme or Category 4 Intertripping Scheme .
Target Frequency	That Frequency determined by The Company , in its reasonable opinion, as the desired operating Frequency of the Total System or of a relevant Power Island . This will normally be 50.00 Hz plus or minus 0.05 Hz, except in exceptional circumstances as determined by The Company for example which may be operating the System during disputes affecting fuel supplies or following a Total Shutdown or Partial Shutdown where Power Islands are established, and each Power Island has its own unique Frequency .
Technical Specification	In relation to Plant and/or Apparatus , (a) the relevant European Specification ; or (b) if there is no relevant European Specification , other relevant standards which are in common use in the European Community.

TERRE	Trans European Replacement Reserves Exchange – a market covering the procurement of replacement reserves across Europe.
TERRE Activation Period	A period of time lasting 15 minutes and starting at either 0, 15, 30 or 45 minutes past the hour (e.g. 10:00 hours to 10:15 hours). There are 4 TERRE Activation Periods in one TERRE Auction Period .
TERRE Auction Period	A period of time lasting one hour and starting and ending on the hour (e.g. from 10:00 hours to 11:00 hours). Hence there are 24 TERRE Auction Periods in a day.
TERRE Bid	A submission by a BM Participant covering the price and MW deviation offered into the TERRE auction (please note – in the Balancing Mechanism the term bid has a different meaning – in this case a bid can be an upward or downward MW change).
TERRE Central Platform	An IT system which implements the TERRE auction.
TERRE Data Validation and Consistency Rules	A document produced by the central TERRE project detailing the correct format of submissions for TERRE .
TERRE Gate Closure	60 minutes before the start of the TERRE Auction Period (note still ongoing discussions if this may become 55 minutes).
TERRE Instruction Guide	Details specific rules for creating an RR Instruction from an RR Acceptance .
Test Co-ordinator	A person who co-ordinates System Tests .
Test Panel	A panel, whose composition is detailed in OC12 , which is responsible, inter alia, for considering a proposed System Test , and submitting a Proposal Report and a Test Programme .
Test Plan	A document prepared by The Company , as published on its Website , outlining how the requirements of the “ Test Plan ”, as provided for by Assimilated Law (Commission Regulation (EU) 2017/2196), has been implemented within the GB Synchronous Area .
Test Programme	A programme submitted by the Test Panel to The Company , the Test Proposer , and each User identified by The Company under OC12.4.2.1, which states the switching sequence and proposed timings of the switching sequence, a list of those staff involved in carrying out the System Test (including those responsible for the site safety) and such other matters as the Test Panel deems appropriate.
Test Proposer	The person who submits a Proposal Notice .
Test Signal	A signal in the form of a sine wave, applied to a GBGF-I to demonstrate its ability to contribute to Active Damping Power .
The Company	Has the meaning given to NESO or National Energy System Operator .
The Company Control Engineer	The nominated person employed by The Company to direct the operation of the National Electricity Transmission System or such person as nominated by The Company .

The Company Operational Strategy	The Company's operational procedures which form the guidelines for operation of the National Electricity Transmission System .
Top Up Restoration Capability	The ability of a Restoration Contractor's Plant to Start-Up from Shutdown and to be Synchronised and remain Synchronised to a part of the Total System upon instruction from The Company or Relevant Transmission Licensee (in Scotland) or relevant Network Operator , within a defined time period, pursuant to the terms of the Top Up Restoration Contract , once external electrical power supplies are restored to that Restoration Contractor's site. In the case of a Local Joint Restoration Plan , an instruction from The Company or Transmission Licensee in Scotland to a Restoration Contractor in respect of their Top Up Restoration Plant would generally be issued immediately after an instruction to an Anchor Restoration Contractor with the Top Up Capability expected to be delivered consecutively after external power supplies had been restored to the Top Up Restoration Contractor's site. In the case of a Distribution Restoration Zone Plan , an instruction from a Network Operator to a Restoration Contractor in respect of their Top Up Restoration Plant would generally be issued immediately after an instruction to an Anchor Restoration Contractor with the Top Up Capability expected to be delivered consecutively after external power supplies had been restored to the Top Up Restoration Contractor's site. For the avoidance of doubt a Restoration Contractor with a Top Up Restoration Capability shall have sufficient Auxiliary Energy Supplies to be capable of delivering the service they have agreed to provide as soon as their Connection Point or User System Entry Point is energised.
Top Up Restoration Contract	In the case of a Local Joint Restoration Plan or Offshore Local Joint Restoration Plan is a contract between The Company and Top Up Restoration Contractor for the provision of a Top Up Restoration Capability . In the case of a Distribution Restoration Zone Plan , an agreement between The Company and relevant Network Operator and Top Up Restoration Contractor for the provision of Top Up Restoration Capability .
Top Up Restoration Contractor	A Restoration Contractor with a Top Up Restoration Contract .
Top Up Restoration Plant	Plant owned and operated by a Top Up Restoration Contractor .
Top Up Restoration Plant Test	A test conducted on a Top Up Restoration Plant to confirm it is capable of meeting the requirements of a Top Up Restoration Contract .
Total Shutdown	The situation existing when all generation has ceased and there is no electricity supply from External Interconnections and, therefore, the Total System has shutdown with the result that it is not possible for the Total System to begin to function again without The Company's directions relating to System Restoration .
Total System	The National Electricity Transmission System and all User Systems in the National Electricity Transmission System Operator Area .
Trading Point	A commercial and, where so specified in the Grid Code, an operational interface between a User and The Company , which a User has notified to The Company .

Transfer Date	Such date as may be appointed by the Secretary of State by order under section 65 of the Act .
Transmission	Means, when used in conjunction with another term relating to equipment or a site, whether defined or not, that the associated term is to be read as being part of or directly associated with the National Electricity Transmission System , and not of or with the User System .
Transmission Area	Has the meaning set out in the Transmission Licence of a Transmission Licensee .
Transmission Connected Demand Facilities	A Demand Facility which has a Grid Supply Point to the National Electricity Transmission System .
Transmission DC Converter	Any Transmission Licensee Apparatus (or OTSUA that will become Transmission Licensee Apparatus at the OTSUA Transfer Time) used to convert alternating current electricity to direct current electricity, or vice versa. A Transmission Network DC Converter (which could include an HVDC System owned by an Offshore Transmission Licensee or Generator in respect of OTSUA) is a standalone operative configuration at a single site comprising one or more converter bridges, together with one or more converter transformers, converter control equipment, essential protective and switching devices and auxiliaries, if any, used for conversion.
Transmission Entry Capacity	Has the meaning set out in the CUSC .
Transmission Interface Circuit	In NGET's Transmission Area or a Competitively Appointed Transmission Licensee with Plant and Apparatus located in NGET's Transmission Area, a Transmission circuit which connects a System operating at a voltage above 132 kV to a System operating at a voltage of 132 kV or below. In SHETL's Transmission Area and SPT's Transmission Area, or a Competitively Appointed Transmission Licensee with Plant and Apparatus located in SHETL's Transmission Area and/or SPT's Transmission Area, a Transmission circuit which connects a System operating at a voltage of 132 kV or above to a System operating at a voltage below 132 kV.
Transmission Interface Point	Means the electrical point of connection between the Offshore Transmission System and an Onshore Transmission System .
Transmission Interface Site	The site at which the Transmission Interface Point is located.
Transmission Licence	A licence granted under Section 6(1)(b) of the Act .
Transmission Licensee	Any Onshore Transmission Licensee or Offshore Transmission Licensee .
Transmission Site	Means a site owned (or occupied pursuant to a lease, licence or other agreement) by a Relevant Transmission Licensee in which there is a Connection Point . For the avoidance of doubt, a site owned by a User but occupied by the Relevant Transmission Licensee as aforesaid, is a Transmission Site .

Transmission System	Has the same meaning as the term "licensee's transmission system" in the Transmission Licence of a Transmission Licensee. Where references are made in this document to NGET's, SPT's, or SHETL's Transmission System, such reference shall be deemed to include: • a Competitively Appointed Transmission Licensee's Transmission System where that Competitively Appointed Transmission Licensee's Transmission System has onshore interface point(s) with only one of NGET's, SPT's, or SHETL's Transmission Systems; or • elements of a Competitively Appointed Transmission Licensee's Transmission System located within NGET's, SPT's, or SHETL's Transmission Area where the Competitively Appointed Transmission Licensee's Transmission System has onshore interface point(s) with more than one of NGET's, SPT's and/or SHETL's Transmission Systems.
Turbine Time Constant	Determined at Registered Capacity , the turbine time constant will be construed in accordance with the principles of the IEEE Committee Report "Dynamic Models for Steam and Hydro Turbines in Power System Studies" published in 1973 which apply to such phrase.
Type A Power Generating Module	A Power Generating Module (including an Electricity Storage Module) with a Grid Entry Point or User System Entry Point below 110 kV and a Maximum Capacity of 0.8 kW or greater but less than 1 MW.
Type B Power Generating Module	A Power Generating Module (including an Electricity Storage Module) with a Grid Entry Point or User System Entry Point below 110 kV and a Maximum Capacity of 1 MW or greater but less than 10 MW.
Type C Power Generating Module	A Power Generating Module (including an Electricity Storage Module) with a Grid Entry Point or User System Entry Point below 110 kV and a Maximum Capacity of 10 MW or greater but less than 50 MW.
Type D Power Generating Module	A Power Generating Module: (including an Electricity Storage Module): with a Grid Entry Point or User System Entry Point at, or greater than, 110 kV; or with a Grid Entry Point or User System Entry Point below 110 kV and with Maximum Capacity of 50 MW or greater.
Unbalanced Load	The situation where the Load on each phase is not equal.
Under-excitation Limiter	Shall have the meaning ascribed to that term in IEC 34-16-1:1991 [equivalent to British Standard BS4999 Section 116.1: 1992].
Under Frequency Relay	An electrical measuring relay intended to operate when its characteristic quantity (Frequency) reaches the relay settings by a decrease in Frequency .
Unit Board	A switchboard through which electrical power is supplied to the Auxiliaries of a Generating Unit and which is supplied by a Unit Transformer . It may be interconnected with a Station Board .

Unit Transformer	A transformer directly connected to a Generating Unit's terminals, and which supplies power to the Auxiliaries of a Generating Unit . Typical voltage ratios are 23/11 kV and 15/6.6 kV.
Unit Load Controller Response Time Constant	The time constant, expressed in units of seconds, of the power output increase which occurs in the Secondary Response timescale in response to a step change in System Frequency .
Unresolved Issues	Any relevant Grid Code provisions or Bilateral Agreement requirements identified by The Company with which the relevant User has not demonstrated compliance to The Company's reasonable satisfaction at the date of issue of the Preliminary Operational Notification and/or Interim Operational Notification and/or Limited Operational Notification and which are detailed in such Preliminary Operational Notification and/or Interim Operational Notification and/or Limited Operational Notification .
Urgent Modification	A Grid Code Modification Proposal treated or to be treated as an Urgent Modification in accordance with GR.23.
User	A term utilised in various sections of the Grid Code to refer to the persons using the National Electricity Transmission System , as more particularly identified in each section of the Grid Code concerned. In the Preface and the General Conditions the term means any person to whom the Grid Code applies. The term User includes an EU Code User and a GB Code User .
User Data File Structure	The file structure given at DRC 18 which will be specified by The Company which a Generator or DC Converter Station owner or HVDC System Owner must use for the purposes of the CP or the ECP to submit DRC data Schedules and information demonstrating compliance with the Grid Code and, where applicable, with the CUSC Contract(s) , unless otherwise agreed by The Company .
User Development	In the PC means either User's Plant and/or Apparatus to be connected to the National Electricity Transmission System , or a Modification relating to a User's Plant and/or Apparatus already connected to the National Electricity Transmission System , or a proposed new connection or Modification to the connection within the User System .
User Self Certification of Compliance	A certificate, in the form attached at CP.A.2.(1) or ECP.A.2.(1) completed by a Generator or DC Converter Station owner or HVDC System Owner to which the Compliance Statement is attached which confirms that such Plant and Apparatus complies with the relevant Grid Code provisions and where appropriate, with the CUSC Contract(s) , as identified in the Compliance Statement and, if appropriate, identifies any Unresolved Issues and/or any exceptions to such compliance and details the derogation(s) granted in respect of such exceptions.
User Site	A site owned (or occupied pursuant to a lease, licence or other agreement) by a User in which there is a Connection Point . For the avoidance of doubt, a site owned by a Relevant Transmission Licensee but occupied by a User as aforesaid, is a User Site .

User System	Any system owned or operated by a User comprising:- (a) Power Generating Modules or Generating Units; and/or (b) Systems consisting (wholly or mainly) of electric lines used for the distribution of electricity from Grid Supply Points or Generating Units or Power Generating Modules or other entry points to the point of delivery to Customers, or other Users; and Plant and/or Apparatus (including prior to the OTSUA Transfer Time, any OTSUA) connecting:- (c) The system as described above; or (d) Non-Embedded Customers equipment; to the National Electricity Transmission System or to the relevant other User System, as the case may be. The User System includes any Remote Transmission Assets operated by such User or other person and any Plant and/or Apparatus and meters owned or operated by the User or other person in connection with the distribution of electricity but does not include any part of the National Electricity Transmission System.
User System Entry Point	A point at which an Embedded; Power Generating Module, Generating Unit, CCGT Module, CCGT Unit, Power Park Module, Electricity Storage Module, DC Converter; or HVDC Converter, connects to the User System.
Virtual Lead Party	As defined in the BSC .
Voltage Jump Reactive Power	The transient Reactive Power injected or absorbed from a Grid Forming Plant to the Total System as a result of either a step or ramp change in the difference between the voltage magnitude and/or phase of the voltage of the Internal Voltage Source of the Grid Forming Plant and Grid Entry Point or User System Entry Point. In the event of a voltage magnitude and phase change at the Grid Entry Point or User System Entry Point, a Grid Forming Plant will instantaneously (within 5 ms) supply Voltage Jump Reactive Power to the Total System as a result of the voltage magnitude change.
Water Time Constant	Bears the meaning ascribed to the term "Water inertia time" in IEC308.

Weather Corrected	The normalised outturn Demand figures based on Annual ACS Conditions for dates and times that occur during calendar week 44 through to calendar week 12 (inclusive) or Average Conditions for dates and times that occur between calendar weeks 13 to calendar week 43 (inclusive) which shall be established by the relevant Network Operator on a best endeavours basis.
Website	The site established by The Company on the World-Wide Web for the exchange of information among Users and other interested persons in accordance with such restrictions on access as may be determined from time to time by The Company .
Weekly ACS Conditions	Means that particular combination of weather elements that gives rise to a level of peak Demand within a week, taken to commence on a Monday and end on a Sunday, which has a particular chance of being exceeded as a result of weather variation alone. This particular chance is determined such that the combined probabilities of Demand in all weeks of the year exceeding the annual peak Demand under Annual ACS Conditions is 50%, and in the week of maximum risk the weekly peak Demand under Weekly ACS Conditions is equal to the annual peak Demand under Annual ACS Conditions .
WG Consultation Alternative Request	Any request from an Authorised Electricity Operator ; the Citizens Advice or the Citizens Advice Scotland , The Company or a Materially Affected Party for a Workgroup Alternative Grid Code Modification to be developed by the Workgroup expressed as such and which contains the information referred to at GR.20.16. For the avoidance of doubt, any WG Consultation Alternative Request does not constitute either a Grid Code Modification Proposal or a Workgroup Alternative Grid Code Modification .
Workgroup	A Workgroup established by the Grid Code Review Panel pursuant to GR.20.1.
Workgroup Consultation	As defined in GR.20.13, and any further consultation which may be directed by the Grid Code Review Panel pursuant to GR.20.20.
Workgroup Alternative Grid Code Modification	An alternative modification to the Grid Code Modification Proposal developed by the Workgroup under the Workgroup terms of reference (either as a result of a Workgroup Consultation or otherwise) and which is believed by a majority of the members of the Workgroup or by the chairperson of the Workgroup to better facilitate the Grid Code Objectives than the Grid Code Modification Proposal or the current version of the Grid Code .
Zonal System Security Requirements	That generation required, within the boundary circuits defining the System Zone , which when added to the secured transfer capability of the boundary circuits exactly matches the Demand within the System Zone .

GD.2 Construction of References

GD.2.1 In the Grid Code:

- (i) a table of contents, a Preface, a Revision section, headings, and the Appendix to this **Glossary and Definitions** are inserted for convenience only and shall be ignored in construing the Grid Code;

- (ii) unless the context otherwise requires, all references to a particular paragraph, sub-paragraph, Appendix or Schedule shall be a reference to that paragraph, sub-paragraph Appendix or Schedule in or to that part of the Grid Code in which the reference is made;
- (iii) unless the context otherwise requires, the singular shall include the plural and vice versa, references to any gender shall include all other genders and references to persons shall include any individual, body corporate, corporation, joint venture, trust, unincorporated association, organisation, firm or partnership and any other entity, in each case whether or not having a separate legal personality;
- (iv) references to the words "include" or "including" are to be construed without limitation to the generality of the preceding words;
- (v) unless there is something in the subject matter or the context which is inconsistent therewith, any reference to an Act of Parliament or any Section of or Schedule to, or other provision of 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, orders and regulations then in force and made under or deriving validity from the relevant Act of Parliament;
- (vi) where the **Glossary and Definitions** refers to any word or term which is more particularly defined in a part of the Grid Code, the definition in that part of the Grid Code will prevail (unless otherwise stated) over the definition in the **Glossary and Definitions** in the event of any inconsistency;
- (vii) a cross-reference to another document or part of the Grid Code shall not of itself impose any additional or further or co-existent obligation or confer any additional or further or co-existent right in the part of the text where such cross-reference is contained;
- (viii) nothing in the Grid Code is intended to or shall derogate from **The Company's** statutory or licence obligations;
- (ix) a "holding company" means, in relation to any person, a holding company of such person within the meaning of section 736, 736A and 736B of the Companies Act 1985 as substituted by section 144 of the Companies Act 1989 and, if that latter section is not in force at the **Transfer Date**, as if such latter section were in force at such date;
- (x) a "subsidiary" means, in relation to any person, a subsidiary of such person within the meaning of section 736, 736A and 736B of the Companies Act 1985 as substituted by section 144 of the Companies Act 1989 and, if that latter section is not in force at the **Transfer Date**, as if such latter section were in force at such date;
- (xi) references to time are to London time; and
- (xii) (a) Save where (b) below applies, where there is a reference to an item of data being expressed in a whole number of MW, fractions of a MW below 0.5 shall be rounded down to the nearest whole MW and fractions of a MW of 0.5 and above shall be rounded up to the nearest whole MW;
- (b) In the case of the definition of **Registered Capacity** or **Maximum Capacity**, fractions of a MW below 0.05 shall be rounded down to one decimal place and fractions of a MW of 0.05 and above shall be rounded up to one decimal place.
- (xiii) For the purposes of the Grid Code, physical quantities such as current or voltage are not defined terms as their meaning will vary depending upon the context of the obligation. For example, voltage could mean positive phase sequence root mean square voltage, instantaneous voltage, phase to phase voltage, phase to earth voltage. The same issue equally applies to current, and therefore the terms current and voltage should remain undefined with the meaning depending upon the context of the application. **Assimilated Law** (Commission Regulation (EU) 2016/631) defines requirements of current and voltage but they have not been adopted as part of EU implementation for the reasons outlined above.

- (xiv) Except where expressly stated to the contrary, reference to Commission Regulations means the Commission Regulation (EU) as it forms part of **Assimilated Law**, as such regulation may be amended.

< END OF GLOSSARY & DEFINITIONS >

OPERATING CODE NO. 6
(OC6)

DEMAND CONTROL

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OC6.1 INTRODUCTION

OC6.1.1 **Operating Code No.6 ("OC6")** is concerned with the provisions to be made by **Network Operators**, and in relation to **Non-Embedded Customers** by **The Company**, to permit the reduction of **Demand** in the event of insufficient **Active Power** generation being available to meet **Demand**, or in the event of breakdown or operating problems (such as in respect of **System Frequency**, **System** voltage levels or **System** thermal overloads) on any part of the **National Electricity Transmission System**.

OC6.1.2 **OC6** deals with the following:

- (a) **Customer** voltage reduction initiated by **Network Operators** (other than following the instruction of **The Company**);
- (b) **Customer Demand** reduction by **Disconnection** initiated by **Network Operators** (other than following the instruction of **The Company**);
- (c) **Demand** reduction instructed by **The Company**;
- (d) automatic low **Frequency Demand Disconnection**; and
- (e) emergency manual **Demand Disconnection**.

The term "**Demand Control**" is used to describe any or all of these methods of achieving a **Demand** reduction.

OC6.1.3 The procedure set out in **OC6** includes a system of warnings and notices to give advance notice of **Demand Control** that may be required by **The Company** under this **OC6**.

OC6.1.4 Data relating to **Demand Control** should include details relating to MW.

OC6.1.5 The Electricity Supply Emergency Code as reviewed and published from time to time by the appropriate government department for energy emergencies provides that in certain circumstances consumers are given a certain degree of "protection" when rota disconnections are implemented pursuant to a direction under the Energy Act 1976. No such protection can be given in relation to **Demand Control** instructed by **The Company** under the **Grid Code**, except:

- (a) in relation to those **Load Blocks** referred to in the procedure for implementation of **Demand Control** on the instructions of **The Company** via **Disconnection** of **Load Blocks** referred to in OC6.5 and where it is technically feasible to provide such protection to pre-designated protected sites; and
- (b) in relation to the **Demand Control Rotation Protocol** arrangements in OC6.9 and where it is technically feasible to provide such protection to pre-designated protected sites,

although, even in these situations, protection cannot be guaranteed.

To invoke the Electricity Supply Emergency Code the Secretary of State will issue direction(s) to all **Network Operators** affected, exercising emergency powers under the Electricity Act 1989 or by virtue of an Order in Council under the Energy Act 1976. Following the issuance of such direction, **The Company** will act to coordinate the implementation of an agreed schedule of rota disconnections across all affected **Network Operators'** licence area(s) and to disseminate any information as necessary throughout the period of the emergency in accordance with the instructions **The Company** receives from the Secretary of State or those authorised on their behalf for this purpose.

The list of pre-designated protected sites is compiled and kept up to date by **Network Operators** in accordance with the terms set out in the Electricity Supply Emergency Code.

OC6.1.6 Connections between **Large Power Stations** and the **National Electricity Transmission System** and between such **Power Stations** and a **User System** will not, as far as possible, be disconnected by **The Company** pursuant to the provisions of **OC6** insofar as that would interrupt supplies

- (a) for the purposes of operation of the **Power Station** (including **Start-Up** and shutting down);
- (b) for the purposes of keeping the **Power Station** in a state such that it could be Started-up when it is off-**Load** for ordinary operational reasons; or
- (c) for the purposes of compliance with the requirements of a Nuclear Site Licence.

Demand Control pursuant to this **OC6** therefore applies subject to this exception.

OC6.2 OBJECTIVE

OC6.2.1 The overall objective of **OC6** is to require the provision of facilities to enable **The Company** to achieve reduction in **Demand** that will either avoid or relieve operating problems on the **National Electricity Transmission System**, in whole or in part, and thereby to enable **The Company** to instruct **Demand Control** in a manner that does not unduly discriminate against, or unduly prefer, any one or any group of **Suppliers** or **Network Operators** or **Non-Embedded Customers**. It is also to ensure that **The Company** is notified of any **Demand Control** utilised by **Users** other than following an instruction from **The Company**.

OC6.2.2 For certain **Grid Supply Points** in Scotland it is recognised that it may not be possible to meet the requirements in OC6.4.5(b), (in respect of **Demand Disconnection** only), OC6.6.2 (c) and OC6.7.2 (b). In these circumstances **The Company** and the relevant **Network Operator(s)** will agree equivalent requirements covering a number of **Grid Supply Points**. If **The Company** and the relevant **Network Operator** fail to agree equivalent requirements covering a number of **Grid Supply Points**, then the relevant **Network Operator** will apply the provisions of OC6.4.5(b), (in respect of **Demand Disconnection** only), OC6.6.2(c) and OC6.7.2(b) as evenly as reasonably practicable over the relevant **Network Operator's** entire **System**.

OC6.3 SCOPE

OC6.3.1 **OC6** applies to **The Company** and to **Users** which in **OC6** means:

- (a) **Generators**; and
- (b) **Network Operators**.

It also applies to **The Company** in relation to **Non-Embedded Customers**.

OC6.3.2 Explanation

OC6.3.2.1 (a) Although OC6 does not apply to **Suppliers**, the implementation of **Demand Control** may affect their **Customers**.

(b) In all situations envisaged in **OC6**, **Demand Control** is exercisable:

- (i) by reference to a **Network Operator's System**; or
- (ii) by **The Company** in relation to **Non-Embedded Customers**.

(c) **Demand Control** in all situations relates to the physical organisation of the **Total System**, and not to any contractual arrangements that may exist.

OC6.3.2.2 (a) Accordingly, **Demand Control** will be exercisable with reference to, for example, five per cent (or such other figure as may be utilised under OC6.5) tranches of **Demand** by a **Network Operator**.

(b) For a **Supplier**, whose **Customers** may be spread throughout a number of **User Systems** (and the **National Electricity Transmission System**), to split its **Customers** into five per cent (or such other figure as may be utilised under OC6.5) tranches of **Demand** would not result in **Demand Control** being implemented effectively on the **Total System**.

- (c) Where **Demand Control** is needed in a particular area, **The Company** would not know which **Supplier** to contact and (even if it were to) the resulting **Demand Control** implemented, because of the diversity of contracts, may well not produce the required result.

OC6.3.2.3

- (a) **Suppliers** should note, however, that, although implementation of **Demand Control** in respect of their **Customers** is not exercisable by them, their **Customers** may be affected by **Demand Control**.
- (b) This will be implemented by **Network Operators** where the **Customers** are within **User Systems** directly connected to the **National Electricity Transmission System**, or where the **Customers** are supplied from an embedded system, and by **The Company** where they are **Non-Embedded Customers**.
- (c) The contractual arrangements relating to **Customers** being supplied by **Suppliers** will, accordingly, need to reflect this.
- (d) The existence of a commercial arrangement for the provision of **Customer Demand Management** or **Commercial Ancillary Services** does not relieve a **Network Operator** from the **Demand Control** provisions of OC6.5, OC6.6, OC6.7 and OC6.9, which may be exercised from time to time.

OC6.4

PROCEDURE FOR THE NOTIFICATION OF DEMAND CONTROL INITIATED BY NETWORK OPERATORS (OTHER THAN FOLLOWING THE INSTRUCTION OF THE COMPANY)

OC6.4.1

Pursuant to the provisions of **OC1**, in respect of the time periods prior to 1100 hours each day, each **Network Operator** will notify **The Company** of all **Customer** voltage reductions and/or restorations and **Demand Disconnection** or reconnection, on a **Grid Supply Point** and half-hourly basis, which will or may, either alone or when aggregated with any other **Demand Control** planned by that **Network Operator**, result in a **Demand** change equal to or greater than the **Demand Control Notification Level** averaged over any half hour on any **Grid Supply Point**, which is planned to be instructed by the **Network Operator** other than following an instruction from **The Company** relating to **Demand** reduction.

OC6.4.2

Under **OC6**, each **Network Operator** will notify **The Company** in writing by 1100 hours each day (or such other time specified by **The Company** from time to time) for the next day (except that it will be for the next 3 days on Fridays and 2 days on Saturdays and may be longer (as specified by **The Company** at least one week in advance) to cover holiday periods) of **Customer** voltage reduction or **Demand Disconnection** which will or may result in a **Demand** change equal to or greater than the **Demand Control Notification Level** averaged over any half hour on any **Grid Supply Point**, (or which when aggregated with any other **Demand Control** planned by that **Network Operator** is equal to or greater than the **Demand Control Notification Level**), planned to take place during the next **Operational Day**.

OC6.4.3

When the **Customer** voltage reduction or **Demand Disconnection** which may result in a **Demand** change equal to or greater than the **Demand Control Notification Level** averaged over any half hour on any **Grid Supply Point** (or which when aggregated with any other **Demand Control** planned or implemented by that **Network Operator** is equal to or greater than the **Demand Control Notification Level**) is planned after 1100 hours, each **Network Operator** must notify **The Company** as soon as possible after the decision to implement has been made. If the **Customer** voltage reduction or **Demand Disconnection** is implemented immediately after the decision to implement is made, each **Network Operator** must notify **The Company** within five minutes of implementation.

OC6.4.4

Where, after **The Company** has been notified, whether pursuant to **OC1**, OC6.4.2 or OC6.4.3, the planned **Customer** voltage reduction or **Demand Disconnection** is changed, the **Network Operator** will notify **The Company** as soon as possible of the new plans, or if the **Customer** voltage reduction or **Demand Disconnection** implemented is different to that notified, the **Network Operator** will notify **The Company** of what took place within five minutes of implementation.

- OC6.4.5 Any notification under OC6.4.2, OC6.4.3 or OC6.4.4 will contain the following information on a **Grid Supply Point** and half hourly basis:
- (a) the proposed (in the case of prior notification) and actual (in the case of subsequent notification) date, time and duration of implementation of the **Customer** voltage reduction or **Demand Disconnection**; and
 - (b) the proposed reduction in **Demand** by use of the **Customer** voltage reduction or **Demand Disconnection**.
- OC6.4.6 Pursuant to the provisions of OC1.5.6, each **Network Operator** will supply to **The Company** details of the amount of **Demand** reduction actually achieved by use of the **Customer** voltage reduction or **Demand Disconnection**.
- OC6.5 PROCEDURE FOR THE IMPLEMENTATION OF DEMAND CONTROL ON THE INSTRUCTIONS OF THE COMPANY
- OC6.5.1 **Demand Disconnection** as part of **Demand Control** addresses anticipated short-term forecasted shortages in electricity supply to meet **Demand** on the **National Electricity Transmission System**. **Demand Disconnection** as part of **Demand Control** aims to prevent unplanned **Demand Disconnections**, or at the extreme, the **Partial Shutdown** or **Total Shutdown** of the **National Electricity Transmission System**. **Demand Disconnection** can be enacted with a shorter lead time than other **Demand Control** methods, such as those contained in the Electricity Supply Emergency Code and in the **Demand Control Rotation Protocol**.
- OC6.5.2 A **National Electricity Transmission System Warning - High Risk of Demand Reduction** will, where possible, be issued by **The Company**, as set out in OC6.5.4, OC7.4.8 and BC1.5.4 when **The Company** anticipates that it will or may instruct a **Network Operator** to implement **Demand** reduction. It will, as provided for in OC6.5.12 and OC7.4.8.2, also be issued to **Non-Embedded Customers**.
- OC6.5.3 Where **The Company** expects to instruct **Demand** reduction within the following 30 minutes, **The Company** will where possible, issue a **National Electricity Transmission System Warning - Demand Control Imminent** in accordance with OC7.4.8.2(c) and OC7.4.8.6.
- OC6.5.4 Whether a **National Electricity Transmission System Warning - High Risk of Demand Reduction** or **National Electricity Transmission System Warning - Demand Control Imminent** has been issued or not; if the **Demand Control** instruction relates to less than 20 per cent of its total **Demand**, the **Network Operator** shall:
- (a) if the **Demand Control** instruction relates to **Demand Disconnection**, disconnect up to four **Fast Load Blocks**:
 - (i) **The Company** shall specify which **Fast Load Block(s)** should be disconnected;
 - (ii) Each **Network Operator** shall abide by the instructions of **The Company** with regard to **Demand** reduction under OC6.5 by disconnecting **Fast Load Block(s)**;
 - (iii) **Demand Disconnection** shall be initiated as soon as possible but no longer than 2 minutes from the instruction being received from **The Company**, and shall be completed within five minutes of the instruction being received from **The Company**; and
 - (iv) The **Demand** reduction shall be achieved as uniformly as possible within the **Network Operator's User System** unless otherwise agreed by **The Company** and the **Network Operator**. Such agreement shall be documented in the **National Electricity Transmission System Warning - High Risk of Demand Reduction** and/or in the **Demand Control** instruction.

- (b) if the **Demand Control** instruction relates to voltage reduction, and where the **Network Operator** has confirmed via their Week 24 submission that they are able to offer voltage reduction services, provide up to two voltage reduction stages of between 2 and 4 per cent voltage reduction, each of which can reasonably be expected to deliver around 1.5 per cent **Demand** reduction provided always that:
 - (i) **The Company** shall specify the number of voltage reduction stages that the **Network Operator** should implement;
 - (ii) Each **Network Operator** shall abide by the instructions of **The Company** with regard to **Demand** reduction under OC6.5 by implementing voltage reduction; and
 - (iii) **Demand Control** initiated by voltage reduction shall be initiated as soon as possible but in any event no longer than 2 minutes from the instruction being received by the **Network Operator** from **The Company** and completed within 10 minutes of the instruction being received from **The Company**.
- (c) Each **Network Operator** must notify **The Company** in writing by calendar week 24 each year, for the succeeding **Financial Year**, whether they are able to offer a voltage reduction service.
- (d) Thereafter, any changes must be notified in writing to **The Company** at least 10 **Business Days** prior to the change coming into effect.

OC6.5.5 Where **The Company** wishes to instruct a **Demand** reduction of more than 20 per cent of a **Network Operator's** total **Demand**, and where **The Company** has sufficient time, **The Company** will initiate the **DCRP** in accordance with OC6.9.

- OC6.5.6
- (a) Where **The Company** wishes to instruct a **Demand** reduction of more than 20 per cent of the **Network Operator's** total **Demand** and where **The Company** does not have sufficient time to initiate the **DCRP** in accordance with OC6.9, **The Company** shall liaise with the **Network Operator** to agree how many **Load Blocks** can be made available within the required timescales.
 - (b) Where a single **Demand Control** instruction relates to more than 20 per cent of its total **Demand** each **Network Operator** will:
 - (i) implement that part of the instruction relating to, up to and including, 20 per cent of **Demand** reduction in accordance with OC6.5.4; and
 - (ii) once the instructions have been implemented by the **Network Operator** in accordance with OC6.5.6 (b) (i), any further **Demand Disconnection** above those implemented in OC6.5.6(b)(i) shall be implemented on a best endeavours basis.
 - (c) Where **The Company** issues a **Network Operator** with consecutive instructions to reduce **Demand**, the **Network Operator** will complete instructions in the order they were issued by **The Company** and will not start to execute any instruction until any preceding instruction has been completed, unless otherwise agreed with **The Company**.

OC6.5.7 Once a **Demand** reduction has been implemented by a **Network Operator** at the instruction of **The Company**, the **Network Operator** may interchange the **Load Blocks** disconnected, where practicable, in consultation with **The Company**.

OC6.5.8 Each **Network Operator** will abide by the instructions of **The Company** with regard to the restoration of **Demand** under OC6.5 without delay. It shall not restore **Demand** until it has received such instruction. The restoration of **Demand** must be achieved as soon as possible and the process of restoration must begin within 2 minutes of the instruction being given by **The Company**.

OC6.5.9 The **Network Operator** will notify **The Company** in writing that it has complied with **The Company's** instruction under OC6.5, within 5 minutes of so doing, together with an estimation of the **Demand** reduction or restoration achieved, as the case may be.

- OC6.5.10 In circumstances of protracted shortage of generation or where a statutory instruction has been given (eg. a fuel security period) and when a reduction in **Demand** is envisaged by **The Company** to be prolonged, **The Company** will notify the **Network Operator** of the expected duration and if other measures (e.g. **DCRP** implementation) are required..
- OC6.5.11 Pursuant to the provisions of OC1.5.6, the **Network Operator** will supply to **The Company** details of the amount of **Demand** reduction or restoration actually achieved..
- OC6.5.12 **The Company** may itself implement **Demand** reduction and subsequent restoration of **Non-Embedded Customers** as part of a **Demand Control** requirement and it will organise the **National Electricity Transmission System** so that it will be able to reduce **Demand** by **Disconnection** of, or **Customer** voltage reduction to, all or any **Non-Embedded Customers**. Equivalent provisions to those in OC6.5.2 shall apply to issuing a **National Electricity Transmission System Warning - High Risk of Demand Reduction** to **Non-Embedded Customers**, as envisaged in OC7.4.8.
- OC6.6 AUTOMATIC LOW FREQUENCY DEMAND DISCONNECTION
- OC6.6.1 Each **Network Operator** will make arrangements that will enable automatic low **Frequency Disconnection** of at least:
- (a) 60 per cent of its total **Demand** (based on **Annual ACS Conditions**) at the time of forecast **National Electricity Transmission System** peak **Demand** where such **Network Operator's System** is connected to the **National Electricity Transmission System** in **NGET's Transmission Area**
 - (b) 40 per cent of its total **Demand** (based on **Annual ACS Conditions**) at the time of forecast **National Electricity Transmission System** peak where such **Network Operator's System** is connected to the **National Electricity Transmission System** in either **SPT's** or **SHETL's Transmission Area**
- in order to seek to limit the consequences of a major loss of generation or an **Event** on the **Total System** which leaves part of the **Total System** with a generation deficit. Where a **Network Operator's System** is connected to the **National Electricity Transmission System** in more than one **Transmission Area**, the figure above for the **Transmission Area** in which the majority of the **Network Operator's Demand** is connected shall apply.
- OC6.6.2
- (a) The **Demand** of each **Network Operator** which is subject to automatic low **Frequency Disconnection** will be split into discrete MW blocks.
 - (b) The number, size (% **Demand**) and the associated low **Frequency** settings of these blocks, will be as specified in Table CC.A.5.5.1a and Table ECC.A.5.5.1a. **The Company** will keep the settings under review.
 - (c) The distribution of the blocks will be such as to give a reasonably uniform **Disconnection** within the **Network Operator's System**, as the case may be, across all **Grid Supply Points**.
 - (d) Each **Network Operator** will notify **The Company** in writing by calendar week 28 each year of the details of the automatic low **Frequency Demand Disconnection** on its **User System**. The information provided should identify, for each **Grid Supply Point** at the date and time of the annual peak of the **National Electricity Transmission System Demand** at **Annual ACS Conditions** (as notified pursuant to OC1.4.2), the frequency settings at which **Demand Disconnection** will be initiated and the amount of **Demand** disconnected at each such setting.
- OC6.6.3 Where conditions are such that, following automatic low **Frequency Demand Disconnection**, and the subsequent **Frequency** recovery, it is not possible to restore a large proportion of the total **Demand** so disconnected within a reasonable period of time, **The Company** may instruct a **Network Operator** to implement additional **Demand Disconnection** manually, and restore an equivalent amount of the **Demand** that had been disconnected automatically. The purpose of such action is to ensure that a subsequent fall in **Frequency** will again be contained by the operation of automatic low **Frequency Demand Disconnection**.

- OC6.6.4 Once an automatic low **Frequency Demand Disconnection** has taken place, the **Network Operator** on whose **User System** it has occurred, will not reconnect until **The Company** instructs that **Network Operator** to do so in accordance with **OC6**.
- OC6.6.5 Once the **Frequency** has recovered, each **Network Operator** will abide by the instructions of **The Company** with regard to reconnection under OC6.6 without delay. Reconnection must be achieved as soon as possible and the process of reconnection must begin within 2 minutes of the instruction being given by **The Company**.
- OC6.6.6
- (a) **Non-Embedded Customers** and **Pumped Storage Generators**, must provide automatic low **Frequency** disconnection, which shall be split into discrete blocks.
 - (b) The number and size of blocks and the associated low **Frequency** settings shall be as specified by **The Company** by week 24 each calendar year following discussion with the **Non-Embedded Customer** and **Pumped Storage Generator** in accordance with the relevant **Bilateral Agreement**.
 - (c) **Generators, Defence Service Providers, Restoration Service Providers** or **Non-Embedded Customers** in respect of **Electricity Storage Modules** who have agreed with **The Company** to satisfy the requirements of OC6.6.6 as provided for in ECC.6.3.7.2.3.1 must provide automatic low **Frequency** disconnection, which shall be split into discrete blocks. The number and size of blocks and the associated low **Frequency** settings will be specified by **The Company** by week 24 each calendar year following discussion with the relevant parties in accordance with the relevant **Bilateral Agreement** or other relevant **Ancillary Services** agreement.
- OC6.6.7
- (a) In addition, **Generators** may wish to disconnect **Power Generating Modules** and/or **Generating Units** from the **System**, either manually or automatically, should they be subject to **Frequency** levels which could result in **Power Generating Module** and/or **Generating Unit** damage.
 - (b) This **Disconnection** facility on such a **Power Generating Module** and/or **Generating Unit** directly connected to the **National Electricity Transmission System**, will be agreed with **The Company** in accordance with the **Bilateral Agreement**.
 - (c) Any **Embedded Power Stations** will need to agree this **Disconnection** facility with the relevant **User** to whose **System** that **Power Station** is connected, which will then need to notify **The Company** of this.
- OC6.6.8 The **Network Operator** or **Non-Embedded Customer**, as the case may be, will notify **The Company** with an estimation of the **Demand** reduction which has occurred under automatic low **Frequency Demand Disconnection** and similarly notify the restoration, as the case may be, in each case within five minutes of the **Disconnection** or restoration.
- OC6.6.9 Pursuant to the provisions of OC1.5.6 the **Network Operator** and **Non-Embedded Customer** will supply to **The Company** details of the amount of **Demand** reduction or restoration actually achieved.
- OC6.6.10
- (a) In the case of a **User**, it is not necessary for it to provide automatic low **Frequency** disconnection under OC6.6 only to the extent that it is providing, at the time it would be so needed, low **Frequency** disconnection at a higher level of **Frequency** as an **Ancillary Service**, namely if the amount provided as an **Ancillary Service** is less than that required under OC6.6 then the **User** must provide the balance required under OC6.6 at the time it is so needed.
 - (b) The provisions of OC7.4.8 relating to the use of **Demand Control** should be borne in mind by **Users**.

- OC6.7 EMERGENCY MANUAL DISCONNECTION
- OC6.7.1 Each **Network Operator** will make arrangements that will enable it, following an instruction from **The Company**, to disconnect **Customers** on its **User System** under emergency conditions irrespective of **Frequency** within 30 minutes. It must be possible to apply the **Demand Disconnections** to individual or specific groups of **Grid Supply Points**, as determined by **The Company**.
- OC6.7.2 Each **Network Operator** shall provide **The Company** in writing by week 28 in each calendar year, in respect of the next following year beginning week 28, on a **Grid Supply Point** basis, with the following information (which is set out in a tabular format in the Appendix):
- (a) its total peak **Demand** (based on **Annual ACS Conditions**); and
 - (b) the percentage value of the total peak **Demand** that can be disconnected (and must include that which can also be reduced by voltage reduction, where applicable) within timescales of 5/10/15/20/25/30 minutes.
- OC6.7.3 Each **Network Operator** will abide by the instructions of **The Company** with regard to **Disconnection** under OC6.7 without delay, and the **Disconnection** must be achieved as soon as possible after the instruction being given by **The Company**, and in any case, within the timescale registered in OC6.7. The instruction may relate to an individual **Grid Supply Point** and/or groups of **Grid Supply Points**.
- OC6.7.4 **The Company** will notify a **Network Operator** who has been instructed under OC6.7, of what has happened on the **National Electricity Transmission System** to necessitate the instruction, in accordance with the provisions of **OC7** and, if relevant, **OC10**.
- OC6.7.5 Once a **Disconnection** has been applied by a **Network Operator** at the instruction of **The Company**, that **Network Operator** will not reconnect until **The Company** instructs it to do so in accordance with **OC6**.
- OC6.7.6 Each **Network Operator** will abide by the instructions of **The Company** with regard to reconnection under OC6.7 without delay, and shall not reconnect until it has received such instruction and reconnection must be achieved as soon as possible and the process of reconnection must begin within 2 minutes of the instruction being given by **The Company**.
- OC6.7.7 **The Company** may itself disconnect manually and reconnect **Non-Embedded Customers** as part of a **Demand Control** requirement under emergency conditions.
- OC6.7.8 If **The Company** determines that emergency manual **Disconnection** referred to in OC6.7 is inadequate, **The Company** may disconnect **Network Operators** and/or **Non-Embedded Customers** at **Grid Supply Points**, to preserve the security of the **National Electricity Transmission System**.
- OC6.7.9 Pursuant to the provisions of OC1.5.6 the **Network Operator** will supply to **The Company** details of the amount of **Demand** reduction or restoration actually achieved.
- OC6.8 OPERATION OF THE BALANCING MECHANISM DURING DEMAND CONTROL
- Demand Control** will constitute an **Emergency Instruction** in accordance with BC2.9 and it may be necessary to depart from normal **Balancing Mechanism** operation in accordance with BC2 in issuing **Bid-Offer Acceptances**. **The Company** will inform affected **BM Participants** in accordance with the provisions of **OC7**.
- OC6.9 DEMAND CONTROL ROTATION PROTOCOL

- OC6.9.1 The **Demand Control Rotation Protocol** is owned and managed by **The Company**. The **DCRP** addresses anticipated short-term forecasted shortages in electricity supply to meet **Demand** on the **National Electricity Transmission System**. The **DCRP** aims to prevent unplanned **Demand Disconnections**, or at the extreme, the **Partial Shutdown** or **Total Shutdown** of the **National Electricity Transmission System**. The **DCRP** describes how **Demand Control** shall be delivered whilst ensuring the protection of protected sites (as defined in the Electricity Supply Emergency Code) where it is technically feasible to provide such protection. A timeline for how the **DCRP** will be delivered, is included in Appendix 2 of OC6.
- OC6.9.2 **The Company** shall undertake a review, at least every five years, in consultation with **Network Operators** and make such amendments to the **DCRP** as agreed. **The Company** shall be responsible for ensuring the finalisation and circulation of the **DCRP** to the **Network Operators** after each review. **The Company** shall liaise with the **Network Operators** and agree any transitional arrangements required to implement any changes to the **DCRP**. Until the new version of the **DCRP** is endorsed by **The Company**, **Network Operators**, and the **Authority**, the existing version will remain in use.
- Each **Network Operator** shall have in place such systems and processes that will enable it, following receipt of an instruction from **The Company**, to enact the arrangements described in the **DCRP**.
- OC6.9.3 **The Company** shall issue a **National Electricity Transmission System Notice – DCRP Actuation** to **Network Operators**, and shall publish it to market participants and the **Authority**, as soon as reasonably practicable after the **Emergency Response Team** meeting, as set out in the **DCRP**. **The Company** shall issue such a notice at least eight hours in advance of **Demand** reduction being needed, unless agreed otherwise between **The Company** and the relevant **Network Operator(s)**.
- OC6.9.4 On receipt of a **National Electricity Transmission System Notice – DCRP Actuation**, **Network Operators** shall:
- (a) make eight **Load Blocks** ready for **Demand Disconnection** available within eight hours; and
 - (b) make a total of 14 **Load Blocks** ready for **Demand Disconnection** within 24 hours, or as soon as reasonably practicable.
- Fast Load Blocks** shall be reserved for delivering obligations under OC6.5.4.
- OC6.9.5 **The Company** shall issue a **National Electricity Transmission System Notice – DCRP Implementation** to **Network Operators**, and shall publish it to market participants and the **Authority**, at least one hour before disconnections are required. This notice shall be issued the first time **Demand Disconnections** are required and will be the formal instruction to **Network Operators** from **The Company**. Once implemented, **Network Operators** shall rotate **Demand** (by disconnecting and reconnecting **Load Blocks**) by implementing the **Activation Schedules** issued by **The Company**, as explained in the **DCRP**. The **Activation Schedules** will be issued by **The Company** at least one hour before **Demand Disconnections** are required to take place, in accordance with the **DCRP**. Subsequent **Activation Schedules** will be issued each time a **Network Operator** is required to disconnect or reconnect **Load Blocks**.
- OC6.9.6 At the end of the **Demand Control Rotation Period**, **The Company** shall issue a **National Electricity Transmission System Notice – DCRP Stand Down** to **Network Operators** and shall publish it to market participants and the **Authority** in accordance with the timelines stated in the **DCRP**. The **National Electricity Transmission System Notice – DCRP Stand Down** shall either:
- (a) instruct **Network Operators** to securely revert back to normal network configuration and operation, without **Demand Disconnection**, as soon as reasonably practicable; or
 - (b) inform **Network Operators** that the **Demand Control Rotation Period** will be transitioning to the arrangements set out in the Electricity Supply Emergency Code.

OC6.9.7 Aspects of the **DCRP** arrangements shall be tested periodically by **The Company** and the **Network Operators** to ensure the protocol and obligations remain fit for purpose.

APPENDIX 1 - EMERGENCY MANUAL DEMAND
REDUCTION/DISCONNECTION SUMMARY SHEET

(As set out in OC6.7)

NETWORK OPERATOR: _____ [YEAR] PEAK: _____

GRID SUPPLY POINT (Name)	PEAK MW	% OF GROUP DEMAND DISCONNECTION (AND/OR REDUCTION IN THE CASE OF THE FIRST 5 MINUTES) (CUMULATIVE)						REMARKS
		TIME (MINS)						
		5	10	15	20	25	30	

- Notes:
- 1. Data to be provided annually by week 28 to cover the following year.

APPENDIX 2 – DEMAND CONTROL ROTATION PROTOCOL TIMELINE

A timeline of how **DCRP** will be delivered (as outlined in OC6.9).

	Time/Trigger	Event/Action
01	More than 8 hours prior to DCRP implementation.	Emergency Response Team meet to determine if DCRP is required.
02	8 hours prior to DCRP implementation.	National Electricity Transmission System Notice – DCRP Actuation issued.
03	National Electricity Transmission System Notice – DCRP Actuation issued.	Network Operators have 8 hours to make 8 Load Blocks available.
04	At least 1 hour prior to DCRP implementation	National Electricity Transmission System Notice – DCRP Implementation issued.
		First set of Activation Schedules issued to Network Operators .
05	At least 1 hour prior to each round of Disconnections / Reconnections	Further Activation Schedules issued to Network Operators .
06	Within 24 hours of National Electricity Transmission System Notice – DCRP Implementation being issued.	Network Operators to have all 14 Load Blocks available for rotation.
07	When DCRP implementation is no longer required.	National Electricity Transmission System Notice – DCRP Stand Down issued.
08	As soon as reasonably practicable after National Electricity Transmission System Notice – DCRP Stand Down being issued.	Network Operators to return network back to normal configuration and operation or revert to arrangements set out in the Electricity Supply Emergency Code.

< END OF OPERATING CODE NO. 6 >

OPERATING CODE NO. 7

(OC7)

OPERATIONAL LIAISON

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OC7.1 INTRODUCTION

OC7.1.1 **Operating Code No. 7** ("OC7") sets out the requirements for the exchange of information in relation to **Operations** and/or **Events** on the **Total System** which have had (or may have had) or will have (or may have) an **Operational Effect**:

- (a) on the **National Electricity Transmission System** in the case of an **Operation** and/or **Event** occurring on the **System** of a **User** or **Users**; and
- (b) on the **System** of a **User** or **Users** in the case of an **Operation** and/or **Event** occurring on the **National Electricity Transmission System**.

It also describes the types of **National Electricity Transmission System Warning** which may be issued by **The Company**.

OC7.1.2 The requirement to notify in **OC7** relates generally to notifying of what is expected to happen or what has happened and not the reasons why. However, as **OC7** provides, when an **Event** or **Operation** has occurred on the **National Electricity Transmission System** which itself has been caused by (or exacerbated by) an **Operation** or **Event** on a **User's System**, **The Company** in reporting the **Event** or **Operation** on the **National Electricity Transmission System** to another **User** can pass on what it has been told by the first **User** in relation to the **Operation** or **Event** on the first **User's System**.

OC7.1.3 Where an **Event** or **Operation** on the **National Electricity Transmission System** falls to be reported by **The Company** to an **Externally Interconnected System Operator** under an **Interconnection Agreement**, **OC7** provides that in the situation where that **Event** or **Operation** has been caused by (or exacerbated by) an **Operation** or **Event** on a **User's System**, **The Company** can pass on what it has been told by the **User** in relation to the **Operation** or **Event** on that **User's System**.

OC7.1.4 **OC7** also deals with **Integral Equipment Tests**.

OC7.1.5 To reconfigure the **National Electricity Transmission System**, **The Company** may reasonably require the assistance of a **User** to reconfigure parts of the **User System**. To reconfigure its **User System** a **User** may reasonably require the reasonable assistance of **The Company** to direct the reconfiguration of parts of the **National Electricity Transmission System**.

OC7.1.6 **OC7.6** sets down the arrangements for the exchange of information required when configuring **Connection Sites** (or in the case of **OTSUA** operational prior to the **OTSUA Transfer Time**, **Transmission Interface Sites**) and parts of the **National Electricity Transmission System** adjacent to those **Connection Sites** (or **Transmission Interface Sites**) in Scotland and **Offshore**. It also covers the setting up of a **Local Switching Procedure**. **The Company** shall procure that **Relevant Transmission Licensees** shall comply with section **OC7.6** and any relevant **Local Switching Procedure** where and to the extent that such matters apply to them.

OC7.2 OBJECTIVE

The objectives of **OC7** are:

OC7.2.1 To provide for the exchange of information so that the implications of an **Operation** and/or **Event** can be considered, possible risks arising from it can be assessed and appropriate action taken by the relevant party in order to maintain the integrity of the **Total System**. **OC7** does not seek to deal with any actions arising from the exchange of information, but merely with that exchange.

OC7.2.2 To provide for types of **National Electricity Transmission System Warnings** which may be issued by **The Company**.

OC7.2.3 To provide the framework for the information flow and discussion between **The Company** and certain **Users** in relation to **Integral Equipment Tests**.

OC7.2.4 To provide the procedure to be followed in respect of **Operational Switching**

OC7.3 SCOPE

OC7.3.1 **OC7** applies to **The Company** and to **Users**, which in **OC7** means:

- (a) **Generators** (other than those which only have **Embedded Small Power Stations** or **Embedded Medium Power Stations**) and including **Generators** undertaking **OTSDUW**;
- (b) **Network Operators**;
- (c) **Non-Embedded Customers**;
- (d) **Suppliers** (for the purposes of **National Electricity Transmission System Warnings**);
- (e) **Externally Interconnected System Operators** (for the purposes of **National Electricity Transmission System Warnings**);
- (f) **DC Converter Station** owners and **HVDC System Owners**;
- (g) **Interconnector Owners** (for the notification of space weather events); and
- (h) **Restoration Contractors** (for the notification of space weather events).

The procedure for operational liaison by **The Company** with **Externally Interconnected System Operators** is set out in the **Interconnection Agreement** with each **Externally Interconnected System Operator**.

OC7.6 also applies to **Relevant Transmission Licensees**.

OC7.4 PROCEDURE

OC7.4.1 The term "**Operation**" means a scheduled or planned action relating to the operation of a **System** (including an **Embedded Power Station**).

OC7.4.2 The term "**Event**" means an unscheduled or unplanned (although it may be anticipated) occurrence on, or relating to, a **System** (including an **Embedded Power Station**) including, without limiting that general description, faults, incidents and breakdowns and adverse weather conditions being experienced.

OC7.4.3 The term "**Operational Effect**" means any effect on the operation of the relevant other **System** which causes the **National Electricity Transmission System** or the **Systems** of the other **User** or **Users**, as the case may be, to operate (or be at a materially increased risk of operating) differently to the way in which they would or may have normally operated in the absence of that effect.

OC7.4.4 References in this **OC7** to a **System** of a **User** or **User's System** shall not include **Embedded Small Power Stations** or **Embedded Medium Power Stations**, unless otherwise stated.

OC7.4.5 Requirement To Notify Operations

OC7.4.5.1 Operation On The National Electricity Transmission System

In the case of an **Operation** on the **National Electricity Transmission System**, which will have (or may have) an **Operational Effect** on the **System(s)** of a **User** or **Users**, **The Company** will notify the **User** or **Users** whose **System(s)** will, or may, in the reasonable opinion of **The Company**, be affected, in accordance with **OC7**.

OC7.4.5.2 Operation On a User's System

In the case of an **Operation** on the **System** of a **User** which will have (or may have) an **Operational Effect** on the **National Electricity Transmission System** (including an equivalent to an **Operation** on the equivalent of a **System** of a **User** or other person connected to that **User's System** which, via that **User System**, will or may have an **Operational Effect** on the **National Electricity Transmission System**), the **User** will notify **The Company** in accordance with **OC7**. Following notification by the **User**, **The Company** will notify any other **User** or **Users** on whose **System(s)** the **Operation** will have, or may have, in the reasonable opinion of **The Company**, an **Operational Effect**, in accordance with **OC7** and will notify any **Externally Interconnected System Operator** on whose **System** the **Operation** will have, or may have, in the reasonable opinion of **The Company**, an **Operational Effect**, if it is required to do so by the relevant **Interconnection Agreement**.

OC7.4.5.3 Examples Of Situations Where Notification By **The Company** Or a **User** may be Required

Whilst in no way limiting the general requirement to notify in advance set out in OC7.4.5.1 and OC7.4.5.2, the following are examples of situations where notification in accordance with OC7.4.5 will be required if they will, or may, have an **Operational Effect**:

- (a) the implementation of a planned outage of **Plant** and/or **Apparatus** which has been arranged pursuant to **OC2**;
- (b) the operation (other than, in the case of a **User**, at the instruction of **The Company**) of any circuit breaker or isolator/disconnector or any sequence or combination of the two; or
- (c) voltage control.

OC7.4.5.4 Operations Caused By Another Operation Or By An Event

An **Operation** may be caused by another **Operation** or an **Event** on another's **System** (including an **Embedded Power Station**) (or by the equivalent of an **Event** or **Operation** on the **System** of an **Externally Interconnected System Operator** or **Interconnector User**) and in that situation the information to be notified is different to that where the **Operation** arose independently of any other **Operation** or **Event**, as more particularly provided in OC7.4.5.6.

OC7.4.5.5 Form

A notification and any response to any questions asked under OC7.4.5, of an **Operation** which has arisen independently of any other **Operation** or of an **Event**, shall be of sufficient detail to describe the **Operation** (although it need not state the cause) and to enable the recipient of the notification reasonably to consider and assess the implications and risks arising (provided that, in the case of an **Operation** on a **User's System** which **The Company** is notifying to other **Users** under OC7.4.5.2, **The Company** will only pass on what it has been told by the **User** which has notified it) and will include the name of the individual reporting the **Operation** on behalf of **The Company** or the **User**, as the case may be. The recipient may ask questions to clarify the notification and the giver of the notification will, insofar as it is able, answer any questions raised, provided that, in the case of an **Operation** on a **User's System** which **The Company** is notifying to other **Users** under OC7.4.5.2, in answering any question, **The Company** will not pass on anything further than that which it has been told by the **User** which has notified it. **The Company** may pass on the information contained in the notification as provided in OC7.4.5.6.

- OC7.4.5.6 (a) A notification by **The Company** of an **Operation** under OC7.4.5.1 which has been caused by another **Operation** (the "first **Operation**") or by an **Event** on a **User's System**, will describe the **Operation** and will contain the information which **The Company** has been given in relation to the first **Operation** or that **Event** by the **User**. The notification and any response to any questions asked (other than in relation to the information which **The Company** is merely passing on from a **User**) will be of sufficient detail to enable the recipient of the notification reasonably to consider and assess the implications and risks arising from the **Operation** on the **National Electricity Transmission System** and will include the name of the individual reporting the **Operation** on behalf of **The Company**. The recipient may ask questions to clarify the notification and **The Company** will, insofar as it is able, answer any questions raised, provided that in relation to the information which **The Company** is merely passing on from a **User**, in answering any question **The Company** will not pass on anything further than that which it has been told by the **User** which has notified it.
- (b) Where a **User** is reporting an **Operation** or an **Event** which itself has been caused by an incident or scheduled or planned action affecting (but not on) its **System**, the notification to **The Company** will contain the information which the **User** has been given by the person connected to its **System** in relation to that incident or scheduled or planned action (which the **User** must require, contractually or otherwise, the person connected to its **System** to give to it) and **The Company** may pass on the information contained in the notification as provided in this OC7.4.5.6.
- OC7.4.5.7 Where an **Operation** on the **National Electricity Transmission System** falls to be reported by **The Company** under an **Interconnection Agreement** and the **Operation** has been caused by another **Operation** (the "first **Operation**") or by an **Event** on a **User's System**, **The Company** will include in that report the information which **The Company** has been given in relation to the first **Operation** or that **Event** by the **User** (including any information relating to an incident or scheduled or planned action, as provided in OC7.4.5.6).
- OC7.4.5.8 (a) A notification to a **User** by **The Company** of an **Operation** under OC7.4.5.1 which has been caused by the equivalent of an **Operation** or of an **Event** on the equivalent of a **System** of an **Externally Interconnected System Operator** or **Interconnector User**, will describe the **Operation** on the **National Electricity Transmission System** and will contain the information which **The Company** has been given, in relation to the equivalent of an **Operation** or of an **Event** on the equivalent of a **System** of an **Externally Interconnected System Operator** or **Interconnector User**, by that **Externally Interconnected System Operator** or **Interconnector User**.
- (b) The notification and any response to any question asked (other than in relation to the information which **The Company** is merely passing on from that **Externally Interconnected System Operator** or **Interconnector User**) will be of sufficient detail to enable the recipient of the notification reasonably to consider and assess the implications and risks arising from the **Operation** on the **National Electricity Transmission System** and will include the name of the individual reporting the **Operation** on behalf of **The Company**. The recipient may ask questions to clarify the notification and **The Company** will, insofar as it is able, answer any questions raised, provided that, in relation to the information which **The Company** is merely passing on from an **Externally Interconnected System Operator** or **Interconnector User**, in answering any question **The Company** will not pass on anything further than that which it has been told by the **Externally Interconnected System Operator** or **Interconnector User** which has notified it.

- OC7.4.5.9 (a) A **Network Operator** may pass on the information contained in a notification to it from **The Company** under OC7.4.5.1, to a **Generator** with a **Power Generating Module** (including a **DC Connected Power Park Module**), **Generating Unit** or a **Power Park Module** connected to its **System**, or to a **DC Converter Station** owner with a **DC Converter** or to a **HVDC System Owner** with a **HVDC System** connected to its **System**, or to the operator of another **User System** connected to its **System** (which, for the avoidance of doubt, could be another **Network Operator**), in connection with reporting the equivalent of an **Operation** under the **Distribution Code** (or the contract pursuant to which that **Power Generating Module** (including a **DC Connecting Power Generating Module**), and/or **Generating Unit** and/or **Power Park Module** or other **User System**, or to a **DC Converter Station** or to an **HVDC System** is connected to the **System** of that **Network Operator**) (if the **Operation** on the **National Electricity Transmission System** caused it).
- (b) A **Generator** may pass on the information contained in a notification to it from **The Company** under OC7.4.5.1, to another **Generator** with a **Power Generating Module** (including a **DC Connected Power Park Module**) and/or a **Generating Unit** or a **Power Park Module** connected to its **System**, or to the operator of a **User System** connected to its **System** (which, for the avoidance of doubt, could be a **Network Operator**), if it is required (by a contract pursuant to which that **Power Generating Module** (including a **DC Connected Power Park Module**) and/or **Generating Unit** and/or that **Power Park Module** or that **User System** is connected to its **System**) to do so in connection with the equivalent of an **Operation** on its **System** (if the **Operation** on the **National Electricity Transmission System** caused it).
- OC7.4.5.10 (a) Other than as provided in OC7.4.5.9, a **Network Operator** or a **Generator** may not pass on any information contained in a notification to it from **The Company** under OC7.4.5.1 (and an operator of a **User System** or **Generator** receiving information which was contained in a notification to a **Generator** or a **Network Operator**, as the case may be, from **The Company** under OC7.4.5.1, as envisaged in OC7.4.5.9 may not pass on this information) to any other person, but may inform persons connected to its **System** (or in the case of a **Generator** which is also a **Supplier**, inform persons to which it supplies electricity which may be affected) that there has been an incident on the **Total System**, the general nature of the incident (but not the cause of the incident) and (if known and if power supplies have been affected) an estimated time of return to service.
- (b) In the case of a **Generator** which has an **Affiliate** which is a **Supplier**, the **Generator** may inform it that there has been an incident on the **Total System**, the general nature of the incident (but not the cause of the incident) and (if known and if power supplies have been affected in a particular area) an estimated time of return to service in that area, and that **Supplier** may pass this on to persons to which it supplies electricity which may be affected).
- (c) Each **Network Operator** and **Generator** shall use its reasonable endeavours to procure that any **Generator** or operator of a **User System** receiving information which was contained in a notification to a **Generator** or **Network Operator**, as the case may be, from **The Company** under OC7.4.5.1, which is not bound by the **Grid Code**, does not pass on any information other than as provided above.
- OC7.4.5.11 The notification will, if either party requests, be recorded by the sender and dictated to the recipient, who shall record and repeat each phrase as it is received and on completion of the dictation shall repeat back the notification in full to the sender who shall confirm that it has been accurately recorded.
- OC7.4.5.12 Timing
- A notification under OC7.4.5 will be given as far in advance as possible and in any event shall be given in sufficient time as will reasonably allow the recipient to consider and assess the implications and risks arising.

OC7.4.6 Requirements To Notify Events

OC7.4.6.1 Events On The National Electricity Transmission System

In the case of an **Event** on the **National Electricity Transmission System** which has had (or may have had) an **Operational Effect** on the **System(s)** of a **User** or **Users**, **The Company** will notify the **User** or **Users** whose **System(s)** have been, or may have been, in the reasonable opinion of **The Company**, affected, in accordance with **OC7**.

OC7.4.6.2 Events On A User's System

In the case of an **Event** on the **System** of a **User** which has had (or may have had) an **Operational Effect** on the **National Electricity Transmission System**, the **User** will notify **The Company** in accordance with **OC7**.

OC7.4.6.3 Events Caused By Another Event Or By An Operation

An **Event** may be caused (or exacerbated by) another **Event** or by an **Operation** on another's **System** (including on an **Embedded Power Station**) (or by the equivalent of an **Event** or **Operation** on the equivalent of a **System** of an **Externally Interconnected System Operator** or **Interconnector User**) and in that situation the information to be notified is different to that where the **Event** arose independently of any other **Event** or **Operation**, as more particularly provided in OC7.4.6.7.

OC7.4.6.4 **The Company** or a **User**, as the case may be, may enquire of the other whether an **Event** has occurred on the other's **System**. If it has, and the party on whose **System** the **Event** has occurred is of the opinion that it may have had an **Operational Effect** on the **System** of the party making the enquiry, it shall notify the enquirer in accordance with **OC7**.

OC7.4.6.5 Examples Of Situations Where Notification By The Company or a User may be Required

Whilst in no way limiting the general requirement to notify set out in OC7.4.6.1, OC7.4.6.2 and OC7.4.6.3, the following are examples of situations where notification in accordance with OC7.4.6 will be required if they have an **Operational Effect**:

- (a) where **Plant** and/or **Apparatus** is being operated in excess of its capability or may present a hazard to personnel;
- (b) the activation of any alarm or indication of any abnormal operating condition;
- (c) adverse weather conditions being experienced;
- (d) breakdown of, or faults on, or temporary changes in the capabilities of, **Plant** and/or **Apparatus**;
- (e) breakdown of, or faults on, control, communication and metering equipment; or
- (f) increased risk of inadvertent protection operation.

Form

OC7.4.6.6 A notification and any response to any questions asked under OC7.4.6.1 and OC7.4.6.2 of an **Event** which has arisen independently of any other **Event** or of an **Operation**, will describe the **Event**, although it need not state the cause of the **Event**, and, subject to that, will be of sufficient detail to enable the recipient of the notification reasonably to consider and assess the implications and risks arising and will include the name of the individual reporting the **Event** on behalf of **The Company** or the **User**, as the case may be. The recipient may ask questions to clarify the notification and the giver of the notification will, insofar as it is able (although it need not state the cause of the **Event**) answer any questions raised. **The Company** may pass on the information contained in the notification as provided in OC7.4.6.7.

- OC7.4.6.7 (a) A notification (and any response to any questions asked under OC7.4.6.1) by **The Company** of (or relating to) an **Event** under OC7.4.6.1 which has been caused by (or exacerbated by) another **Event** (the "first **Event**") or by an **Operation** on a **User's System** will describe the **Event** and will contain the information which **The Company** has been given in relation to the first **Event** or that **Operation** by the **User** (but otherwise need not state the cause of the **Event**). The notification and any response to any questions asked (other than in relation to the information which **The Company** is merely passing on from a **User**) will be of sufficient detail to enable the recipient of the notification reasonably to consider and assess the implications and risks arising from the **Event** on the **National Electricity Transmission System** and will include the name of the individual reporting the **Event** on behalf of **The Company**. The recipient may ask questions to clarify the notification and **The Company** will, insofar as it is able, answer any questions raised, provided that in relation to the information which **The Company** is merely passing on from a **User**, in answering any question **The Company** will not pass on anything further than that which it has been told by the **User** which has notified it.
- (b) Where a **User** is reporting an **Event** or an **Operation** which itself has been caused by (or exacerbated by) an incident or scheduled or planned action affecting (but not on) its **System** the notification to **The Company** will contain the information which the **User** has been given by the person connected to its **System** in relation to that incident or scheduled or planned action (which the **User** must require, contractually or otherwise, the person connected to its **System** to give to it) and **The Company** may pass on the information contained in the notification as provided in this OC7.4.6.7.
- OC7.4.6.8 Where an **Event** on the **National Electricity Transmission System** falls to be reported by **The Company** under an **Interconnection Agreement** and the **Event** has been caused by (or exacerbated by) another **Event** (the "first **Event**") or by an **Operation** on a **User's System**, **The Company** will include in that report the information which **The Company** has been given in relation to the first **Event** or that **Operation** by the **User** (including any information relating to an incident or scheduled or planned action on that **User's System**, as provided in OC7.4.6.7).
- OC7.4.6.9 (a) A notification to a **User** (and any response to any questions asked under OC7.4.6.1) by **The Company** of (or relating to) an **Event** under OC7.4.6.1 which has been caused by (or exacerbated by) the equivalent of an **Event** or of an **Operation** on the equivalent of a **System** of an **Externally Interconnected System Operator** or **Interconnector User**, will describe the **Event** on the **National Electricity Transmission System** and will contain the information which **The Company** has been given, in relation to the equivalent of an **Event** or of an **Operation** on the equivalent of a **System** of an **Externally Interconnected System Operator** or **Interconnector User**, by that **Externally Interconnected System Operator** or **Interconnector User** (but otherwise need not state the cause of the **Event**).
- (b) The notification and any response to any questions asked (other than in relation to the information which **The Company** is merely passing on from that **Externally Interconnected System Operator** or **Interconnector User**) will be of sufficient detail to enable the recipient of the notification reasonably to consider and assess the implications and risks arising from the **Event** on the **National Electricity Transmission System** and will include the name of the individual reporting the **Event** on behalf of **The Company**. The recipient may ask questions to clarify the notification and **The Company** will, insofar as it is able (although it need not state the cause of the **Event**) answer any questions raised, provided that, in relation to the information which **The Company** is merely passing on from an **Externally Interconnected System Operator** or **Interconnector User**, in answering any question **The Company** will not pass on anything further than that which it has been told by the **Externally Interconnected System Operator** or **Interconnector User** which has notified it.

- OC7.4.6.10 (a) A **Network Operator** may pass on the information contained in a notification to it from **The Company** under OC7.4.6.1, to a **Generator** with a **Power Generating Module** (including a **DC Connected Power Park Module**) and/or **Generating Unit** and/or a **Power Park Module** connected to its **System** or to a **DC Converter Station** owner with a **DC Converter** or to an **HVDC System Owner** with an **HVDC System** connected to its **System** or to the operator of another **User System** connected to its **System** (which, for the avoidance of doubt, could be a **Network Operator**), in connection with reporting the equivalent of an **Event** under the **Distribution Code** (or the contract pursuant to which that **Power Generating Module** and/or **Generating Unit** and/or **Power Park Module** or **DC Converter** or **HVDC System** or other **User System** is connected to the **System** of that **Network Operator**) (if the **Event** on the **National Electricity Transmission System** caused or exacerbated it).
- (b) A **Generator** may pass on the information contained in a notification to it from **The Company** under OC7.4.6.1, to another **Generator** with a **Power Generating Module** and/or **Generating Unit** and/or a **Power Park Module** connected to its **System** or to the operator of a **User System** connected to its **System** (which, for the avoidance of doubt, could be a **Network Operator**), if it is required (by a contract pursuant to which that **Power Generating Module** (including a **DC Connected Power Park Module**) and/or **Generating Unit** and/or that **Power Park Module** or that **User System** is connected to its **System**) to do so in connection with the equivalent of an **Event** on its **System** (if the **Event** on the **National Electricity Transmission System** caused or exacerbated it).
- OC7.4.6.11 (a) Other than as provided in OC7.4.6.10, a **Network Operator** or a **Generator**, may not pass on any information contained in a notification to it from **The Company** under OC7.4.6.1 (and an operator of a **User System** or **Generator** receiving information which was contained in a notification to a **Generator** or a **Network Operator**, as the case may be, from **The Company** under OC7.4.6.1, as envisaged in OC7.4.6.10 may not pass on this information) to any other person, but may inform persons connected to its **System** (or in the case of a **Generator** which is also a **Supplier**, inform persons to which it supplies electricity which may be affected) that there has been an incident on the **Total System**, the general nature of the incident (but not the cause of the incident) and (if known and if power supplies have been affected) an estimated time of return to service.
- (b) In the case of a **Generator** which has an **Affiliate** which is a **Supplier**, the **Generator** may inform it that there has been an incident on the **Total System**, the general nature of the incident (but not the cause of the incident) and (if known and if power supplies have been affected in a particular area) an estimated time of return to service in that area, and that **Supplier** may pass this on to persons to which it supplies electricity which may be affected).
- (c) Each **Network Operator** and **Generator** shall use its reasonable endeavours to procure that any **Generator** or operator of a **User System** receiving information which was contained in a notification to a **Generator** or **Network Operator**, as the case may be, from **The Company** under OC7.4.6.1, which is not bound by the **Grid Code**, does not pass on any information other than as provided above.
- OC7.4.6.12 When an **Event** relating to a **Power Generating Module** and/or **Generating Unit** and/or a **Power Park Module** or a **DC Converter** or an **HVDC System** (or **OTSUA** operational prior to the **OTSUA Transfer Time**), has been reported to **The Company** by a **Generator** or **DC Converter Station** owner or **HVDC System Owner** under OC7.4.6 and it is necessary in order for the **Generator** or **DC Converter Station** owner or **HVDC System Owner** to assess the implications of the **Event** on its **System** more accurately, the **Generator** or **DC Converter Station** owner or **HVDC System Owner** may ask **The Company** for details of the fault levels from the **National Electricity Transmission System** to that **Power Generating Module** and/or **Generating Unit** and/or **Power Park Module** or **DC Converter** or **HVDC System** (or **OTSUA** operational prior to the **OTSUA Transfer Time**) at the time of the **Event**, and **The Company** will, as soon as reasonably practicable, give the **Generator** or **DC Converter Station** owner or **HVDC System Owner** that information provided that **The Company** has that information.

- OC7.4.6.13 Except in an emergency situation the notification of an **Event** will, if either party requests, be recorded by the sender and dictated to the recipient, who shall record and repeat each phrase as it is received and on completion of the dictation shall repeat the notification in full to the sender who shall confirm that it has been accurately recorded.

Timing

- OC7.4.6.14 A notification under OC7.4.6 shall be given as soon as possible after the occurrence of the **Event**, or time that the **Event** is known of or anticipated by the giver of the notification under **OC7**, and in any event within 15 minutes of such time.

OC7.4.7 Significant Incidents

- OC7.4.7.1 Where a **User** notifies **The Company** of an **Event** under **OC7** which **The Company** considers has had or may have had a significant effect on the **National Electricity Transmission System**, **The Company** will require the **User** to report that **Event** in writing in accordance with the provisions of **OC10** and will notify that **User** accordingly.

- OC7.4.7.2 Where **The Company** notifies a **User** of an **Event** under **OC7** which the **User** considers has had or may have had a significant effect on that **User's System**, that **User** will require **The Company** to report that **Event** in writing in accordance with the provisions of **OC10** and will notify **The Company** accordingly.

- OC7.4.7.3 **Events** which **The Company** requires a **User** to report in writing pursuant to OC7.4.7.1, and **Events** which a **User** requires **The Company** to report in writing pursuant to OC7.4.7.2, are known as "**Significant Incidents**".

- OC7.4.7.4 Without limiting the general description set out in OC7.4.7.1 and OC7.4.7.2, a **Significant Incident** will include **Events** having an **Operational Effect** which result in, or may result in, the following:

- (a) operation of **Plant** and/or **Apparatus** either manually or automatically;
- (b) voltage outside statutory limits;
- (c) **Frequency** outside statutory limits; or
- (d) **System** instability.

OC 7.4.8 National Electricity Transmission System Warnings

OC7.4.8.1 Role Of National Electricity Transmission System Warnings

National Electricity Transmission System Warnings as described below provide information relating to **System** conditions or **Events** and are intended to:

- (i) alert **Users** to possible or actual **Plant** shortage, **System** problems and/or **Demand** or generation **Active Power** reductions;
- (ii) inform of the applicable period;
- (iii) indicate intended consequences for **Users**; and
- (iv) enable specified **Users** to be in a state of readiness to react properly to instructions received from **The Company**.

A table of **National Electricity Transmission System Warnings**, set out in Appendix 1 to **OC7**, summarises the warnings and their usage. In the case of a conflict between the table and the provisions of the written text of **OC7**, the written text will prevail.

OC7.4.8.2 Recipients of National Electricity Transmission System Warnings and National Electricity Transmission System Notices

- (a) Where **National Electricity Transmission System Warnings** and **National Electricity Transmission System Notices**, (except those relating to **Demand Control Imminent** and **Embedded Generation Control Imminent**), are applicable to **System** conditions or **Events** which have widespread effect, **The Company** will notify all **Users** under **OC7**.

- (b) Where in **The Company's** judgement **System** conditions or **Events** may only have a limited effect, the **National Electricity Transmission System Warning** or **National Electricity System Notices** will as a minimum only be issued to those **Users** who are or may in **The Company's** judgement be affected.
- (c) Where a **National Electricity Transmission System Warning - Demand Control Imminent** is issued it will as a minimum only be sent to those **Users** who are likely to receive **Demand Control** instructions from **The Company**.
- (d) Where a **National Electricity Transmission System Warning Embedded Generation Control Imminent** is issued it will as a minimum only be sent to those **Network Operators** who are likely to receive **Embedded Generation Control** instructions.

OC7.4.8.3 Preparatory Action

- (a) Where possible, and if required, recipients of the warnings should take such preparatory action as they deem necessary taking into account the information contained in the **National Electricity Transmission System Warning**. All warnings will be of a form determined by **The Company** and will remain in force from the stated time of commencement until the cancellation, amendment or re-issue, as the case may be, is notified by **The Company**.
- (b) Where a **National Electricity Transmission System Warning** has been issued to a **Network Operator** and is current, **Demand Control** should not (subject as provided below) be employed unless instructed by **The Company**. If **Demand Control** is, however, necessary to preserve the integrity of the **Network Operator's System**, then the impact upon the integrity of the **Total System** should be considered by the **Network Operator** and where practicable discussed with **The Company** prior to its implementation.

Where a **National Electricity Transmission System Warning** has been issued to a **Supplier**, further **Customer Demand Management** (in addition to that previously notified under **OC1 - Demand Forecasts**) must only be implemented following notification to **The Company**.

- (c) **National Electricity Transmission System Warnings** will be issued by such data transmission facilities as have been agreed between **The Company** and **Users**. In the case of **Generators** with **Gensets** this will normally be at their **Trading Points** (if they have notified **The Company** that they have a **Trading Point**).
- (d) **Users** may at times be informed by telephone of **National Electricity Transmission System Warnings** and in these circumstances confirmation will be sent to those **Users** so notified by such data transmission facilities as have been agreed between **The Company** and **Users**, as soon as possible.

OC7.4.8.4 Types of National Electricity Transmission System Warnings and National Electricity Transmission System Notices

National Electricity Transmission System Warnings consist of the following types:-

- (i) **National Electricity Transmission System Warning - Electricity Margin Notice**
- (ii) **National Electricity Transmission System Warning - High Risk of Demand Reduction**
- (iii) **National Electricity Transmission System Warning - Demand Control Imminent**
- (iv) **National Electricity Transmission System Warning – System NRAPM**
- (v) **National Electricity Transmission System Warning – Localised NRAPM**
- (vi) **National Electricity Transmission System Warning – High Risk of Embedded Generation Reduction**
- (vii) **National Electricity Transmission System Warning - Embedded Generation Control Imminent**

(viii) **National Electricity Transmission System Warning - Risk of System Disturbance**

(b) **National Electricity Transmission System Notices** consist of the following types:-

- (i) **National Electricity Transmission Notice – DCRP Actuation**
- (ii) **National Electricity Transmission Notice – DCRP Implementation**
- (iii) **National Electricity Transmission Notice – DCRP Stand Down**

OC7.4.8.5 National Electricity Transmission System Warning - Electricity Margin Notice

A **National Electricity Transmission System Warning - Electricity Margin Notice** may be issued to **Users** in accordance with OC7.4.8.2, at times when there is a reduced **System Margin**, as determined under BC1.5.4. It will contain the following information:

- (i) the period for which the warning is applicable; and
- (ii) the availability shortfall in MW; and
- (iii) intended consequences for **Users**, including notification that **Maximum Generation Service** may be instructed.

OC 7.4.8.6 National Electricity Transmission System Warning - High Risk of Demand Reduction

(a) A **National Electricity Transmission System Warning - High Risk of Demand Reduction** may be issued to **Users** in accordance with OC7.4.8.2 at times when there is a reduced **System Margin**, as determined under BC1.5.4 and in **The Company's** judgement there is increased risk of **Demand** reduction being implemented under OC6.5.1. It will contain the following information in addition to the required information in a **National Electricity Transmission System Warning - Electricity Margin Notice**:

- (i) the possible percentage level of **Demand** reduction required; and
- (ii) Specify those **Network Operators** and **Non-Embedded Customers** who may subsequently receive instructions under OC6.5.1.

(b) A **National Electricity Transmission System Warning - High Risk of Demand Reduction** may also be issued by **The Company** to those **Network Operators** and **Non-Embedded Customers** who may subsequently receive instructions under OC6.5.1 relating to a **Demand** reduction in circumstances not related to **System Margin** (for example **Demand** reduction required to manage **System** overloading).

The **National Electricity Transmission System Warning - High Risk of Demand Reduction** will specify the period during which **Demand** reduction may be required and the part of the **Total System** to which it applies and any other matters specified in OC6.5.

OC7.4.8.6.1 Protracted Periods Of Generation Shortage

(a) Whenever **The Company** anticipates that a protracted period of generation shortage may exist a **National Electricity Transmission System Warning - Electricity Margin Notice** or **High Risk of Demand Reduction** may be issued, to give as much notice as possible to those **Network Operators** and **Non-Embedded Customers** who may subsequently receive instructions under OC6.5.

(b) A **National Electricity Transmission System Warning - High Risk of Demand Reduction** will in these instances include an estimate of the percentage of **Demand** reduction that may be required and the anticipated duration of the **Demand** reduction. It may also include information relating to estimates of any further percentage of **Demand** reduction that may be required.

(c) The issue of the **National Electricity Transmission System Warning - Electricity Margin Notice** or **High Risk of Demand Reduction** is intended to enable recipients to plan ahead on the various aspects of **Demand** reduction.

OC7.4.8.7 National Electricity Transmission System Warning - Demand Control Imminent

- (a) A **National Electricity Transmission System Warning - Demand Control Imminent**, relating to a **Demand** reduction under OC6.5, will be issued by **The Company** to **Users** in accordance with OC7.4.8.2. It will specify those **Network Operators** who may subsequently receive instructions under OC6.5.
- (b) A **National Electricity Transmission System Warning - Demand Control Imminent**, need not be preceded by any other **National Electricity Transmission System Warning** and will be issued when a **Demand** reduction is expected within the following 30 minutes, but will not cease to have effect after 30 minutes from its issue. However, **The Company** will either reissue the **National Electricity Transmission System Warning - Demand Control Imminent** or cancel the **National Electricity Transmission System Warning - Demand Control Imminent** no later than 2 hours from first issue, or from re-issue, as the case may be.

OC.7.4.8.8 **National Electricity Transmission System Warning – System NRAPM**

- (a) Procedures for maintaining **System NRAPM** are defined in BC1.5.5 but where this is, in the view of **The Company** and as set out in BC1.5.5, deemed likely to be insufficient this will be communicated to all **Users** and will be treated as a **System Warning**.
- (b) Such a **System Warning** will where possible include information on the likely reduction in **Active Power** that will be required and the timing and duration of this.
- (c) A **System NRAPM** refers to the margin of **Active Power** across the whole **System**.

OC.7.4.8.9 **National Electricity Transmission System Warning – Localised NRAPM**

- (a) Procedures for maintaining **Localised NRAPM** are defined in BC1.5.5 but where this is, in the view of **The Company** and as set out in BC1.5.5, deemed likely to be insufficient this will be communicated to all **Users** and will be treated as a **System Warning**.
- (b) Such a **System Warning** will where possible include information on the likely reduction in **Active Power** that will be required and the timing and duration of this.
- (c) A **Localised NRAPM** refers to the management of transfers to and from a **System Constraint Group**.

OC 7.4.8.10 **National Electricity Transmission System Warning - High Risk of Embedded Generation Reduction**

- (a) A **National Electricity Transmission System Warning - High Risk of Embedded Generation Reduction** may be issued to **Users** in accordance with OC7.4.8.2 at times when in **The Company's** judgement there is increased risk of **Embedded Generation Control** being required as defined in OC6B.5.1.
- (b) In addition to any information communicated through a **System NRAPM** or **Localised NRAPM**, the **National Electricity Transmission System Warning - High Risk of Embedded Generation Reduction** will specify the period during which **Embedded Generation Control** may be required and the part of the **Total System** to which it applies and any other matters specified in OC6B.5.
- (c) The issue of the **National Electricity Transmission System Warning - High Risk of Embedded Generation Reduction** is intended to enable recipients to plan ahead on the various aspects of **Embedded Generation Control**.

OC7.4.8.11 **National Electricity Transmission System Warning – Embedded Generation Control Imminent**

- (a) A **National Electricity Transmission System Warning – Embedded Generation Control Imminent** will be issued by **The Company** to **Users** in accordance with OC7.4.8.2. It will specify those **Network Operators** who may subsequently receive instructions under OC6B.5.

- (b) A **National Electricity Transmission System Warning – Embedded Generation Control Imminent**, need not be preceded by any other **National Electricity Transmission System Warning** and will be issued when an **Embedded Generation Control** instruction is expected within the following 30 minutes, but will not cease to have effect after 30 minutes from its issue. However, **The Company** will either reissue the **National Electricity Transmission System Warning – Embedded Generation Control Imminent** or cancel the **National Electricity Transmission System Warning – Embedded Generation Control Imminent** no later than 2 hours from first issue, or from re-issue, as the case may be.

OC7.4.8.12 National Electricity Transmission System Warning - Risk of System Disturbance

- (a) A **National Electricity Transmission System Warning - Risk of System Disturbance** will be issued by **The Company** to **Users** who may be affected when **The Company** knows there is a risk of widespread and serious disturbance to the whole or part of, the **National Electricity Transmission System**;
- (b) The **National Electricity Transmission System Warning - Risk of System Disturbance** will contain such information as **The Company** deems appropriate;
- (c) For the duration of the **National Electricity Transmission System Warning - Risk of System Disturbance**, each **User** in receipt of the **National Electricity Transmission System Warning - Risk of System Disturbance** shall take the necessary steps to warn its operational staff and to maintain its **Plant** and/or **Apparatus** in the condition in which it is best able to withstand the anticipated disturbance;
- (d) During the period that the **National Electricity Transmission System Warning - Risk of System Disturbance** is in effect, **The Company** may issue **Emergency Instructions** in accordance with **BC2** and it may be necessary to depart from normal **Balancing Mechanism** operation in accordance with **BC2** in issuing **Bid-Offer Acceptances**.

OC7.4.8.13 Cancellation of National Electricity Transmission System Warning

- (a) **The Company** will give notification of a **Cancellation of National Electricity Transmission System Warning** to all **Users** issued with the **National Electricity Transmission System Warning** when in **The Company's** judgement **System** conditions have returned to normal.
- (b) A **Cancellation of National Electricity Transmission System Warning** will identify the type of **National Electricity Transmission System Warning** being cancelled and the period for which it was issued. The **Cancellation of National Electricity Transmission System Warning** will also identify any **National Electricity Transmission System Warnings** that are still in force.

OC7.4.8.14 National Electricity Transmission Notice – DCRP Actuation

A **National Electricity Transmission Notice – DCRP Actuation** will be issued by **The Company** to **Network Operators** in accordance with OC7.4.8.2. It will specify the instructions required in accordance with OC6.9.3.

OC7.4.8.15 National Electricity Transmission Notice – DCRP Implementation

A **National Electricity Transmission Notice – DCRP Implementation** will be issued by **The Company** to **Network Operators** in accordance with OC7.4.8.2. It will specify the instructions required in accordance with OC6.9.5.

OC7.4.8.16 National Electricity Transmission Notice – DCRP Stand Down

A **National Electricity Transmission Notice – DCRP Stand Down** will be issued by **The Company** to **Network Operators** in accordance with OC7.4.8.2. It will specify the instructions required in accordance with OC6.9.6

OC7.4.8.17 General Management of National Electricity Transmission System Warnings

- (a) **National Electricity Transmission System Warnings** remain in force for the period specified unless superseded or cancelled by **The Company**.
- (b) A **National Electricity Transmission System Warning** issued for a particular period may be superseded by further related warnings. This will include **National Electricity Transmission System Warning - Electricity Margin Notice** being superseded by **National Electricity Transmission System Warning - High Risk of Demand Reduction** and vice-versa, and **National Electricity Transmission System Warning – System NRAPM** being superseded by **National Electricity Transmission System Warning - High Risk of Embedded Generation Reduction**.
- (c) In circumstances where it is necessary for the period of a **National Electricity Transmission System Warning** to be changed:
 - (i) the period applicable may be extended by the issue of a **National Electricity Transmission System Warning** with a period which follows on from the original period, or
 - (ii) revised or updated **National Electricity Transmission System Warnings** will be issued where there is an overlap with the period specified in an existing **National Electricity Transmission System Warning**, but only if the revised period also includes the full period of the existing **National Electricity Transmission System Warning**.

In any other case the existing **National Electricity Transmission System Warning** will be cancelled and a new one issued.

- (c) A **National Electricity Transmission System Warning** is no longer applicable once the period has passed and to confirm this **The Company** will issue a **Cancellation of National Electricity Transmission System Warning**.

OC7.4.8.18 Publication of Other System Alerts and Warnings

- (a) All instructions, warnings, alerts and notifications upon being received or issued by **The Company** (whether activating or deactivating an action) as per Appendix 2 of OC7 will be published on the **BMRS**. Should the **BMRS** be unavailable, for example due to communications or systems failures, other appropriate channels including email will be utilised until the **BMRS** can be restored.
- (b) **The Company** will employ reasonable endeavours to publish such information within 15 minutes of issue or receipt, or if not possible within as short a time as is reasonably practicable.

OC7.4.9 Notification of Space Weather Events

- (a) All space weather notifications issued by **The Company** (whether activating or deactivating an action) as per Appendix 3 of OC7 will be published on the **BMRS**. Should the **BMRS** be unavailable, for example due to communications or systems failures, other appropriate channels, which could include email, will be utilised until the **BMRS** can be restored.
- (b) Any **Space Weather Prepare Notifications, Space Weather Imminent Notifications, Space Weather Experienced Notifications, Space Weather Cessation Notifications, Space Weather Cancellation Notifications, or Space Weather Advisory Statements** shall be issued by **The Company** to **Control Centres**.
- (c) **The Company** will employ reasonable endeavours to publish such information arising under (a) and (b) above as soon as is reasonably practicable in accordance with OC2.4.

OC7.5 PROCEDURE IN RELATION TO INTEGRAL EQUIPMENT TESTS

OC7.5.1 This section of the **Grid Code** deals with **Integral Equipment Tests**. It is designed to provide a framework for the exchange of relevant information and for discussion between **The Company** and certain **Users** in relation to **Integral Equipment Tests**.

OC7.5.2 An **Integral Equipment Test**:

- (a) is carried out in accordance with the provisions of this OC7.5 at:
 - (i) a **User Site**,
 - (ii) a **Transmission Site**,
 - (iii) an **Embedded Large Power Station**, or,
 - (iv) an **Embedded DC Converter Station**; or
 - (v) an **Embedded HVDC System**
- (b) will normally be undertaken during commissioning or re-commissioning of **Plant** and/or **Apparatus**;
- (c) may, in the reasonable judgement of the person wishing to perform the test, cause, or have the potential to cause, an **Operational Effect** on a part or parts of the **Total System** but which with prior notice is unlikely to have a materially adverse effect on any part of the **Total System**; and
- (d) may form part of an agreed programme of work.

In the case of **OTSUA** operation prior to the **OTSUA Transfer Time**, a **User's Site** or **Transmission Site** shall, for the purposes of this **OC7**, include a site at which there is an **Interface Point** until the **OTSUA Transfer Time** and the provisions of this OC7.5 and references to **OTSUA** shall be construed and applied accordingly until the **OTSUA Transfer Time**.

OC7.5.3 A set of guidance notes is available from **The Company** on request, which provide further details on suggested procedures, information flows and responsibilities.

Notification Of An IET

OC7.5.4 In order to undertake an **Integral Equipment Test** (and subject to OC7.5.8 below), the **User** or **The Company**, as the case may be, (the proposer) must notify the other (the recipient) of a proposed **IET**. Reasonable advance notification must be given, taking into account the nature of the test and the circumstances which make the test necessary. This will allow recipients time to adequately assess the impact of the **IET** on their **System**.

OC7.5.5 The notification of the **IET** must normally include the following information:-

- (a) the proposed date and time of the **IET**;
- (b) the name of the individual and the organisation proposing the **IET**;
- (c) a proposed programme of testing; and
- (d) such further detail as the proposer reasonably believes the recipient needs in order to assess the effect the **IET** may have on relevant **Plant** and/or **Apparatus**.

OC7.5.6 In the case of an **IET** in connection with commissioning or re-commissioning, the test should be incorporated as part of any overall commissioning programme agreed between **The Company** and the **User**.

Response To Notification of an IET

OC7.5.7 The recipient of notification of an **IET** must respond within a reasonable timescale prior to the start time of the **IET** and will not unreasonably withhold or delay acceptance of the **IET** proposal.

- OC7.5.8
- (a) Where **The Company** receives notification of a proposed **IET** from a **User**, **The Company** will consult those other **Users** whom it reasonably believes may be affected by the proposed **IET** to seek their views. Information relating to the proposed **IET** may be passed on by **The Company** with the prior agreement of the proposer. However it is not necessary for **The Company** to obtain the agreement of any such **User** as **IETs** should not involve the application of irregular, unusual or extreme conditions. **The Company** may however consider any comments received when deciding whether or not to agree to an **IET**.
 - (b) In the case of an **Embedded Large Power Station** or **Embedded DC Converter Station**, or **Embedded HVDC System**, the **Generator** or **DC Converter Station** owner or **HVDC System Owner** as the case may be, must liaise with both **The Company** and the relevant **Network Operator**. **The Company** will not agree to an **IET** relating to such **Plant** until the **Generator** or **DC Converter Station** owner or **HVDC System Owner** has shown that it has the agreement of the relevant **Network Operator**.
 - (c) A **Network Operator** will liaise with **The Company** as necessary in those instances where it is aware of an **Embedded Small Power Station** or an **Embedded Medium Power Station** which intends to perform tests which in the reasonable judgement of the **Network Operator** may cause an **Operational Effect** on the **National Electricity Transmission System**.

- OC7.5.9 The response from the recipient, following notification of an **IET** must be one of the following:
- (a) to accept the **IET** proposal;
 - (b) to accept the **IET** proposal conditionally subject to minor modifications such as date and time;
 - (c) not to agree the **IET**, but to suggest alterations to the detail and timing of the **IET** that are necessary to make the **IET** acceptable.

Final Confirmation Of an IET

- OC7.5.10 The date and time of an **IET** will be confirmed between **The Company** and the **User**, together with any limitations and restrictions on operation of **Plant** and/or **Apparatus**.
- OC7.5.11 The **IET** may subsequently be amended following discussion and agreement between **The Company** and the **User**.

Carrying Out an IET

- OC7.5.12 **IETs** may only take place when agreement has been reached and must be carried out in accordance with the agreed programme of testing.
- OC7.5.13 The implementation of an **IET** will be notified in accordance with OC7.4.5.
- OC7.5.14 Where elements of the programme of testing change during the **IET**, there must be discussion between the appropriate parties to identify whether the **IET** should continue.

OC7.6 PROCEDURE IN RESPECT OF OPERATIONAL SWITCHING

- OC7.6.1 This section OC7.6 of the **Grid Code** sets out the procedure to be followed for **Operational Switching**. Its provisions are supplementary to the provisions of the rest of this **OC7**.

It is designed to set down the arrangements for **The Company**, **Users** and the **Relevant Transmission Licensees** in respect of the **Operational Switching** of **Plant** and **Apparatus** at a **Connection Site** and parts of the **National Electricity Transmission System** adjacent to that **Connection Site**.

- OC7.6.2 In general:
- (i) **The Company** is responsible for directing the configuration of the **National Electricity Transmission System**
 - (ii) Each **Relevant Transmission Licensee** is responsible for the instruction and operation of its **Plant** and **Apparatus** on its **Transmission System**.

- (iii) Each **User** is responsible for the configuration, instruction and operation of its **Plant** and **Apparatus**.

Definitive schedules of these responsibilities for each **Connection Site** are contained in the relevant **Site Responsibility Schedules**.

For the avoidance of doubt, where a **User** operates **Transmission Plant** and **Apparatus** on behalf of a **Relevant Transmission Licensee**, **The Company** cannot instruct the **User** to operate that **Plant** and **Apparatus**.

Planned Operational Switching

OC7.6.3 Following the notification of an **Operation** under OC7.4.5, **The Company** and the **User** shall discuss the **Operational Switching** required. **The Company** will then discuss and agree the details of the **Operational Switching** with the **Relevant Transmission Licensee**. The **Relevant Transmission Licensee** shall then make contact with the **User** to initiate the **Operational Switching**. For the avoidance of doubt, from the time that the **Relevant Transmission Licensee** makes contact with the **User**, the **Relevant Transmission Licensee** shall then become the primary point of operational contact with the **User** in relation to **OC7** for matters which would or could affect, or would or could be affected by the **Operational Switching**.

OC7.6.4 The **User** shall be advised by the **Relevant Transmission Licensee** on the completion of the **Operational Switching**, that **The Company** shall again become the primary point of operational contact for the **User** in relation to **OC7**.

OC7.6.5 During **Operational Switching**, either the **Relevant Transmission Licensee** or the **User** may need to unexpectedly terminate the **Operational Switching**. **The Company** may also need to terminate the **Operational Switching** during the **Operational Switching**. In the event of unexpected termination of the **Operational Switching**, **The Company** shall become the primary point of operational contact for the **User** in relation to **OC7**. Following the termination of the **Operational Switching**, it will not be permitted to restart that **Operational Switching** without the parties again following the process described in OC7.6.3.

Emergencies

OC7.6.6 For **Operations** and/or **Events** that present an immediate hazard to the safety of personnel, **Plant** or **Apparatus**, the **Relevant Transmission Licensee** may:

- (i) as permitted by the **STC**, carry out **Operational Switching** of **Plant** and **Apparatus** on its **Transmission System** without reference to **The Company** and the **User**, and
- (ii) request a **User** to carry out **Operational Switching** without the **User** first receiving notification from **The Company**.

In such emergency circumstances, communication between the **Relevant Transmission Licensee** and the **User** shall normally be by telephone and will include an exchange of names. The **User** shall use all reasonable endeavours to carry out **Operational Switching** on its **Plant** and **Apparatus** without delay. Following completion of the requested **Operational Switching**, the **Relevant Transmission Licensee** shall notify **The Company** of the **Operational Switching** which has taken place. In such emergency circumstances, the **User** may only refuse to carry out **Operational Switching** on safety grounds (relating to personnel or plant) and this must be notified to the **Relevant Transmission Licensee** immediately by telephone.

OC7.6.7 For **Operations** and/or **Events** that present an immediate hazard to the safety of personnel, **Plant** or **Apparatus**, and which require **Operational Switching** of **Plant** or **Apparatus** on a **Transmission System** in order to remove the hazard, the **User** should contact the **Relevant Transmission Licensee** directly to request **Operational Switching** of **Plant** or **Apparatus** on its **Transmission System**.

In such emergency circumstances, communication between the **Relevant Transmission Licensee** and the **User** shall normally be by telephone and will include an exchange of names. The **Relevant Transmission Licensee** shall use all reasonable endeavours to carry out **Operational Switching** on its **Plant** and **Apparatus** without delay. Following completion of the requested **Operational Switching**, the **User** shall notify **The Company** of the **Operational Switching** which has taken place. In such emergency circumstances, the **Relevant Transmission Licensee** may only refuse to carry out **Operational Switching** on safety grounds (relating to personnel or plant) and this must be notified to the **User** immediately by telephone.

OC7.6.8

Establishment Of A Local Switching Procedure

- (a) **The Company**, a **User** or a **Relevant Transmission Licensee** may reasonably require a **Local Switching Procedure** to be established.
- (b) Where the need for a **Local Switching Procedure** arises the following provisions shall apply:
 - (i) **The Company**, **User(s)** and the **Relevant Transmission Licensee** will discuss and agree the detail of the **Local Switching Procedure** as soon as the requirement for a **Local Switching Procedure** is identified. **The Company** will notify the **Relevant Transmission Licensee** and the affected **User(s)** and will initiate these discussions.
 - (ii) Each **Local Switching Procedure** shall be in relation to either one or more **Connection Sites** (or in the case of **OTSUA** operational prior to the **OTSUA Transfer Time, Transmission Interface Sites**) and parts of the **National Electricity Transmission System** adjacent to the **Connection Site(s)** (or in the case of **OTSUA** operational prior to the **OTSUA Transfer Time, Transmission Interface Sites**)
 - (iii) A draft **Local Switching Procedure** shall be prepared by the **Relevant Transmission Licensee** to reflect the agreement reached and shall be sent to **The Company**.
 - (iv) When a **Local Switching Procedure** has been prepared, it shall be sent by **The Company** to the **Relevant Transmission Licensee** and **User(s)** for confirmation of its accuracy.
 - (v) The **Local Switching Procedure** shall then be signed on behalf of **The Company** and on behalf of each **User** and **Relevant Transmission Licensee** by way of written confirmation of its accuracy.
 - (vi) Once agreed under this OC7.6.8, the procedure will become a **Local Switching Procedure** under the **Grid Code**, and (subject to any change pursuant to this **OC7**) will apply between **The Company**, **Relevant Transmission Licensee** and the relevant **User(s)** as if it were part of the **Grid Code**.
 - (vii) Once signed, **The Company** will send a copy of the **Local Switching Procedure** to the **Relevant Transmission Licensee** and the **User(s)**.
 - (viii) An agreed **Local Switching Procedure** should be referenced by relevant **Site Responsibility Schedules**.
 - (ix) **The Company**, the **User(s)** and the **Relevant Transmission Licensee** must make the **Local Switching Procedure** readily available to the relevant operational staff.
 - (x) If the **Relevant Transmission Licensee** or the **User(s)** become aware that a change is needed to a **Local Switching Procedure**, they must inform **The Company** immediately. Where **The Company** has been informed of a need for a change, or **The Company** proposes a change, **The Company** shall notify both the affected **User** and the **Relevant Transmission Licensee** and will initiate discussions to agree a change to the **Local Switching Procedure**. The principles applying to the establishment of a new **Local Switching Procedure** shall then apply to the discussion and agreement of any changes.

APPENDIX 1 - National Electricity Transmission System Warnings and Notices Tables

WARNING TYPE	GRID CODE	FORMAT	TO: FOR ACTION	TO: FOR INFORMATION	TIMESCALE	WARNING OF/OR CONSEQUENCE	RESPONSE FROM RECIPIENTS
NATIONAL ELECTRICITY TRANSMISSION SYSTEM WARNING – ELECTRICITY MARGIN NOTICE	OC7.4.8.5	Designated Information Exchange System or other electronic means	Generators, Suppliers, Externally Interconnected System Operators, DC Converter Station owners and HVDC System Owners	Network Operators, Non-Embedded Customers	All timescales when at the time there is not a high risk of Demand reduction. Primarily 120 hours onwards for a future period.	Insufficient generation available to meet forecast Demand plus Operating Margin . Notification that if not improved Demand reduction may be instructed. (Normal initial warning of insufficient System Margin)	Offers of increased availability from Generators or DC Converter Station owners. HVDC System Owners and Interconnector Users . Suppliers notify The Company of any additional Customer Demand Management that they will initiate.
NATIONAL ELECTRICITY TRANSMISSION SYSTEM WARNING – High risk of Demand Reduction	OC7.4.8.6	Designated Information Exchange System or other electronic means	Generators, Suppliers, Network Operators, Non-Embedded Customers, Externally Interconnected System Operators, DC Converter Station owners, HVDC System Owners		All timescales where there is a high risk of Demand reduction. Primarily 120 hours onwards for a future period	Insufficient generation available to meet forecast Demand plus Operating Margin and/or a high risk of Demand reduction being instructed. (May be issued locally as Demand reduction risk only for circuit overloads)	Offers of increased availability from Generators or DC Converter Station owners or HVDC System Owners and Interconnector Users . Suppliers notify The Company of any additional Customer Demand Management that they will initiate. Specified Network Operators and Non-Embedded Customers to prepare their Demand reduction arrangements and take actions as necessary to enable compliance with The Company instructions that may follow. (Percentages of Demand reduction above 20% may not be achieved if The Company has not issued the warning by 16:00 hours the previous day.)
NATIONAL ELECTRICITY TRANSMISSION SYSTEM WARNING – Demand Control Imminent	OC7.4.8.7	Designated Information Exchange System/ Telephone or other electronic means	Specified Users only: (to whom an instruction is to be given) Network Operators, Non-Embedded Customers	None	Within 30 minutes of anticipated instruction	Possibility of Demand reduction within 30 minutes	Network Operators specified to prepare to take action as necessary to enable them to comply with any subsequent The Company instruction for Demand reduction.

WARNING TYPE	GRID CODE	FORMAT	TO: FOR ACTION	TO: FOR INFORMATION	TIMESCALE	WARNING OF/OR CONSEQUENCE	RESPONSE FROM RECIPIENTS
National Electricity Transmission System Warning – System NRAPM	OC7.4.8.8	Issued via data transmission facilities and, in some cases, by telephone.	Network Operators	All Users	All timescales when at the time there is not a high risk of Embedded Generation reduction.	Insufficient margin of Active Power available to allow the largest loss of Load at any time. Notification that if not improved Embedded Generation Control may be instructed.	Offers of reduced Active Power infeed from Generators or DC Converter Station owners, HVDC System Owners and Interconnector Users . Generators notify The Company of any reduction in Active Power output that they will initiate.
National Electricity Transmission System Warning – Localised NRAPM	OC7.4.8.9	Issued via data transmission facilities and, in some cases, by telephone.	Network Operators	All Users	All timescales when at the time there is not a high risk of Embedded Generation reduction.	Insufficient Active Power available to allow transfers to and from a System Constraint Group . Notification that if not improved Embedded Generation Control may be instructed.	Offers of reduced Active Power infeed in impacted System Constraint Group from Generators or DC Converter Station owners, HVDC System Owners and Interconnector Users . Generators notify The Company of any reduction in Active Power output that they will initiate.
National Electricity Transmission System Warning – High Risk of Embedded Generation Reduction	OC7.4.8.10	Issued via data transmission facilities and, in some cases, by telephone.	Network Operators	All Users	All timescales when at the time there is not a high risk of Embedded Generation reduction.	Insufficient System NRAPM available and/or a high risk of Embedded Generation Control being instructed.	Offers of reduced Active Power infeed from Generators or DC Converter Station owners, HVDC System Owners and Interconnector Users . Generators notify The Company of any reduction in Active Power output that they will initiate. Specified Network Operators to prepare for Embedded Generation Control actions as directed by The Company .
National Electricity Transmission System Warning – Embedded Generation Control Imminent	OC7.4.8.11	Issued via data transmission facilities and, in some cases, by telephone.	Network Operators	All Users	Within 30 minutes of anticipated instruction.	Possibility of Embedded Generation Control within 30 minutes	Network Operators specified to prepare to take action as necessary to enable them to comply with any subsequent instruction from The Company for Embedded Generation Control .
NATIONAL ELECTRICITY TRANSMISSION SYSTEM WARNING – Risk of System Disturbance	OC7.4.8.12	Designated Information Exchange System/ Telephone or other electronic means	Generators, DC Converter Station owners, HVDC System Owners, Network Operators, Non-Embedded Customers, Externally Interconnected System Operators who may be affected.	Suppliers	Control room time scales	Risk of, widespread system disturbance to whole or part of the National Electricity Transmission System	Recipients take steps to warn operational staff and maintain plant or apparatus such that they are best able to withstand the disturbance.

NOTICE TYPE	GRID CODE	FORMAT	TO: FOR ACTION	TO: FOR INFORMATION	TIMESCALE	WARNING OF/OR CONSEQUENCE	RESPONSE FROM RECIPIENTS
National Electricity Transmission System Notice – DCRP Actuation	OC7.4.8.14	Designated Information Exchange System or other electronic means.	Specified Users only: (to whom an instruction is given) Network Operators .	Summary of Notice to market participants and the Authority .	Within eight hours of notice being issued.	DCRP to be actuated within the timeframe specified.	Network Operators specified to take action to prepare the network for DCRP activation.
National Electricity Transmission System Notice – DCRP Implementation	OC7.4.8.15	Designated Information Exchange System or other electronic means.	Specified Users only: (to whom an instruction is given) Network Operators .	Summary of Notice to market participants and the Authority .	Within one hour of notice being issued.	Activation Schedules need to be followed to implement DCRP .	Network Operators specified to take action to ensure the Activation Schedules are implemented.
National Electricity Transmission System Notice – DCRP Stand Down	OC7.4.8.16	Designated Information Exchange System or other electronic means.	Specified Users only: (to whom an instruction is given) Network Operators .	Summary of Notice to market participants and the Authority .	As soon as reasonably practicable after notice being issued.	DCRP is no longer required, and the Specified Users will securely revert their System back to normal network configuration and operation without Demand Disconnection or transition to the Electricity Supply Emergency Code arrangements.	Network Operators specified to take action to return the system to conditions before DCRP actuation or to transition to arrangements under the Electricity Supply Emergency Code.

APPENDIX 2 – Other System Alerts and Warnings per OC7.4.8.15

Alert, Instruction, Notification or Warning Type	Reference	Warning of/or Consequence
Demand Control by Demand Disconnection instructed by The Company	Grid Code OC6.5	Demand Disconnection applied
Demand Control by voltage reduction instructed by The Company	Grid Code OC6.5	Demand Reduction Applied
Automatic Low Frequency Demand Disconnection	Grid Code OC6.6	Automatic Demand Disconnection Applied
Demand Control (including voltage reduction and demand disconnection) – Network Operator activated	Grid Code OC6.4 and DOC6.6	Network Operator Demand Control Activated
Grid Code Emergency Instruction (to Network Operator)	Grid Code BC2.9.1.4	Emergency Instruction(s) issued.
Grid Code Emergency Instruction (to Generators & Demand – BCA, BEGA, & BELLA)	Grid Code BC2.9.1.3	May require departure from normal Balancing Market Operation in accordance with BC2
Grid Code Emergency Instruction (to Interconnectors)	Grid Code BC2.9.1.4	May require departure from normal Balancing Market Operation in accordance with BC2
System NRAM	Grid Code BC1.5.5	Inadequate Negative Reserve Active Power Margin (nationally)
Localised NRAM	Grid Code BC1.5.5	Inadequate Negative Reserve Active Power Margin (locally)
Cancellation of National Electricity System Warning	Grid Code OC7.4.8.9	Noted warning no longer applicable.
STC Emergency Instruction to Transmission Owner¹	STC Section C Part Two (7)	Discontinue Outage within Emergency Return to Service Time
ESEC Implementation	Grid Code OC6.1.5	Commencing rota disconnection across affected Network Operators licence areas.
EMR Capacity Market Notifications	Capacity Market Rules 8.4.6	Demand Reduction Instruction/Emergency Manual Disconnection Instruction issued to Network Operator(s), or Inadequate System Margin anticipated, or Automatic Low Frequency Demand Disconnection occurred per Capacity Market Rules 8.4.6 .
Emergency Assistance Requests	Grid Code BC2.9.6	Request to increase Active Energy transferred into the NETS, or reduce Active Energy transferred into its External System

¹Identification of the specific equipment affected is not required to be included within the published alert

APPENDIX 3 – Space Weather Notifications per OC7.4.9

Notifications	Reference	Warning of/or Consequence
Space Weather Prepare Notification	Grid Code OC7.4.9	Submission of Space Weather Output Usable Declaration
Space Weather Imminent Notification	Grid Code OC7.4.9	Compliance with Space Weather Output Usable Declaration
Space Weather Experienced Notification	Grid Code OC7.4.9	Submission of Space Weather Outcome Statement
Space Weather Cessation Notifications	Grid Code OC7.4.9	Resubmission of Space Weather Output Usable Declaration
Space Weather Cancellation Notifications	Grid Code OC7.4.9	Space Weather Output Usable Declarations cease to have effect
Space Weather Advisory Statement	Grid Code OC7.4.9	No consequence, for awareness only.

< END OF OPERATING CODE NO. 7 >

GOVERNANCE RULES

(GR)

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

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PART A

GR.1 INTRODUCTION

- GR.1.1 This section of the Grid Code sets out how the Grid Code is to be amended and the procedures set out in this section, to the extent that they are dealt with in the Code Administration Code of Practice, are consistent with the principles contained in the Code Administration Code of Practice. Where inconsistencies or conflicts exist between the Grid Code and the Code Administration **Code of Practice**, the Grid Code shall take precedence.
- GR.1.2 There is a need to bring proposed amendments to the attention of **Users** and others, to discuss such proposals and to report on them to the **Authority** and in furtherance of this, the **Governance Rules** set out the functions of a **Grid Code Review Panel** and **Workgroups** and for consultation by the **Code Administrator**.
- GR.1.3 For the purpose of these **Governance Rules** the term “**User**” shall mean any person who is under any obligation or granted any rights under the Grid Code.

PART B

GR.2 CODE ADMINISTRATOR

- GR.2.1 **The Company** shall establish and maintain a **Code Administrator** function, which shall carry out the roles referred to in GR.2.2 and GR.3.2. **The Company** shall ensure the functions are consistent with the **Code Administration Code of Practice**.
- GR.2.2 The **Code Administrator** shall in conjunction with other code administrators, maintain, publish, review and (where appropriate) amend from time to time the **Code Administration Code of Practice** approved by the **Authority** provided that any amendments to the **Code Administration Code of Practice** proposed by the **Code Administrator** are approved by the **Grid Code Review Panel** prior to being raised by the **Code Administrator**, and any amendments to be made to the **Code Administration Code of Practice** are approved by the **Authority**.

GR.3 THE GRID CODE REVIEW PANEL

GR.3.1 Establishment and Composition

- GR.3.1.1 The **Grid Code Review Panel** shall be the standing body to carry out the functions referred to in GR.3.2

- GR.3.1.2 The **Grid Code Review Panel** shall comprise the following members:

- (a) the person appointed as the chairperson of the **Grid Code Review Panel** (the “**Panel Chairperson**”) in accordance with GR.4.1, who shall (subject to GR.11.4) be a voting member unless they are an employee of **The Company** in which case they will be a non-voting member;
- (b) the following members, appointed in accordance with GR.4.2 (a), who shall be non-voting members:
 - (i) a representative of the **Code Administrator**;
 - (ii) a representative of the **Authority** appointed in accordance with GR.4.3;
 - (iii) a person representing the **BSC Panel** appointed in accordance with GR.4.2(d);
 - and
 - (iv) the chairperson of the **GCDF**;
- (c) the following members who shall be voting **Panel Members**:

- (i) a representative of **The Company** appointed in accordance with GR.4.2(c);
 - (ii) two representatives of the **Network Operators**;
 - (iii) a representative of **Suppliers**;
 - (iv) a representative of the **Onshore Transmission Licensees**;
 - (v) a representative of the **Offshore Transmission Licensees**;
 - (vi) four representatives of the **Generators**;
 - (vii) the **Consumer Representative**, appointed in accordance with GR.4.2(b);
 - (viii) the person appointed (if the **Authority** so decides) by the Authority in accordance with GR.4.4;
- (d) a secretary (the “**Panel Secretary**”), who shall be a person appointed and provided by the **Code Administrator** to assist the **Grid Code Review Panel** and who shall be responsible for the administration of the **Grid Code Review Panel** and **Grid Code Modification Proposals**. The **Panel Secretary** will be a non-voting member of the **Grid Code Review Panel**.

GR.3.2

Functions of the **Grid Code Review Panel** and the **Code Administrator’s** Role

- (a) The **Grid Code Review Panel** shall have the functions assigned to it in these **Governance Rules**.
- (b) Without prejudice to GR.3.2(a) and to the further provisions of these **Governance Rules**, the **Grid Code Review Panel** shall endeavour at all times to operate:
 - (i) in an efficient, economical and expeditious manner, taking account of the **Prioritisation Criteria**, whether particular **Grid Code Modification Proposals** are **Urgent Modifications**, or if they are not **Urgent Modifications** or don’t meet the **Fast Track Criteria**, the **Prioritisation Category** of particular **Grid Code Modification Proposals**; and
 - (ii) with a view to ensuring that the **Grid Code** facilitates achievement of the **Grid Code Objectives**.
- (c) **The Company** shall be responsible for implementing or supervising the implementation of **Approved Modifications** and **Approved Grid Code Self Governance Proposals** and **Approved Grid Code Fast Track Proposals** in accordance with the provisions of the Grid Code which shall reflect the production of the revised Grid Code. The **Code Administrator** and **The Company** shall be responsible for implementing and supervising the implementation of any amendments to their respective systems and processes necessary for the implementation of the **Approved Modification** and the **Approved Grid Code Self-Governance Proposals** provided there is no successful appeal and the **Approved Grid Code Fast Track Proposals** provided no objections are received in accordance with GR.26. However, it will not include the implementation of **Users’** systems and processes. The **Code Administrator** will carry out its role in an efficient, economical and expeditious manner and (subject to any extension granted by the **Authority** where the **Code Administrator** has applied for one in accordance with GR.3.2(d) or (e) in accordance with the **Implementation Date**.
- (d) Subject to notifying **Users**, the **Code Administrator** will, with the **Authority’s** approval, apply to the **Authority** for a revision or revisions to the **Implementation Date** where the **Code Administrator** becomes aware of any circumstances which is likely to mean that the **Implementation Date** is unachievable, which shall include as a result of a **Legal Challenge**, at any point following the approval of the **Grid Code Modification Proposal**.
- (e) In the event that the **Authority’s** decision to approve or not to approve a **Grid Code Modification Proposal** is subject of **Legal Challenge** (and the party raising such **Legal Challenge** has received from the relevant authority the necessary permission to proceed) then the **Code Administrator** will, with the **Authority’s** approval, apply to the **Authority** for a revision or revisions to the **Proposed Implementation Date** in the **Grid Code Modification Report** in respect of such **Grid Code Modification Proposal** as necessary such that if such **Grid Code Modification Proposal** were to be approved

following such **Legal Challenge** the **Proposed Implementation Date** would be achievable.

- (f) Prior to making any request to the **Authority** for any revision pursuant to GR.3.2(d) (including where it is necessary as a result of a **Legal Challenge**) or GR.3.2(e) the **Code Administrator** shall consult on the revision with **Users** and such other person who may properly be considered to have an appropriate interest in it in accordance with GR.21.2 and GR.21.8. The request to the **Authority** shall contain copies of (and a summary of) all written representations or objections made by consultees during the consultation period.

GR.3.3

Duties of Panel Members

- (a) A person appointed as a **Panel Member**, or an **Alternate Member**, by **Users** under GR.4.2 or GR.7.2, by the **Authority** under GR.4.3 and the person appointed as **Panel Chairperson** under GR.4.1, and each of their alternates when acting in that capacity:
 - (i) shall act impartially and in accordance with the requirements of the **Grid Code**; and
 - (ii) shall not be representative of, and shall act without undue regard to the particular interests of the persons or body of persons by whom they were appointed as **Panel Member** and any **Related Person** from time to time.
- (b) Such a person shall not be appointed as a **Panel Member** or an **Alternate Member** (as the case may be) unless they shall have first:
 - (i) confirmed in writing to the **Code Administrator** for the benefit of all **Users** that they agree to act as a **Panel Member** or **Alternate Member** in accordance with the **Grid Code** and acknowledges the requirements of GR.3.3 (a) and GR.3.3(c);
 - (ii) where that person is employed, provided to the **Panel Secretary** a letter from their employer agreeing that they may act as **Panel Member** or **Alternate Member**, and that the requirement in GR.3.3(a)(ii) shall prevail over their duties as an employee.
- (c) A **Panel Member** or **Alternate Member** shall, at the time of appointment and upon any change in such interests, disclose (in writing) to the **Panel Secretary** any such interests (in relation to the **Grid Code**) as are referred to in GR.3.3(a)(ii).
- (d) Upon a change in employment of a **Panel Member** or **Alternate Member**, they shall so notify the **Panel Secretary** and shall endeavour to obtain from their new employer and provide to the **Panel Secretary** a letter in the terms required in GR.3.3(b)(ii); and they shall be removed from office if they do not do so within a period of sixty (60) days after such change in employment.

GR.4

APPOINTMENT OF PANEL MEMBERS

GR.4.1

Panel Chairperson

- (a) The **Panel Chairperson** shall be a person appointed (or re-appointed) by **The Company**, having particular regard to the views of the **Grid Code Review Panel**, and shall act independently of **The Company**.
- (b) A person shall be appointed or re-appointed as the **Panel Chairperson** where the **Authority** has approved such appointment or reappointment and **The Company** has given notice to the **Panel Secretary** of such appointment, with effect from the date of such notice or (if later) with effect from the date specified in such notice.

GR.4.2

Other Panel Members:

- (a) the **Network Operators, Suppliers, Onshore Transmission Licensees, Offshore Transmission Licensees** and **Generators** may appoint **Panel Members** by election in accordance with Annex GR.A.
- (b) The **Citizens Advice** or the **Citizens Advice Scotland** may appoint one person as a **Panel Member** representing customers by giving notice of such appointment to the **Panel Secretary**, and may remove and re-appoint by notice.
- (c) **The Company** shall appoint the **The Company** representative referred to at GR.3.1.2(c)(i) and shall give notice of the identity of such person to the **Panel Secretary**, and may remove and re-appoint by notice to the **Panel Secretary**.
- (d) The **BSC Panel** shall appoint a representative to be the member of the **Grid Code Review Panel** referred to at GR.3.1.2(c) (iii) and shall give notice of the identity of such person to the **Panel Secretary**, and may remove and re-appoint by notice to the **Panel Secretary**.

GR.4.3. The **Authority** shall from time to time notify the **Panel Secretary** of the identity of the **Authority** representative referred to at GR.3.1.2(b)(ii).

GR.4.4 Appointment of Further Member:

- (a) If in the opinion of the **Authority** there is a class or category of person (whether or not a **User**) who have interests in respect of the **Grid Code** but whose interests:
 - (i) are not reflected in the composition of **Panel Members** for the time being appointed; but
 - (ii) would be so reflected if a particular person was appointed as an additional **Panel Member**, then the **Authority** may at any time appoint (or re-appoint) that person as a **Panel Member** by giving notice of such appointment to the **Panel Secretary** but in no event shall the **Authority** be able to appoint more than one person so that there could be more than one such **Panel Member**.
- (b) A person appointed as a **Panel Member** pursuant to this GR.4.4 shall remain appointed, subject to GR.5 and GR.6, notwithstanding that the conditions by virtue of which they were appointed (for example that the interests they reflect are otherwise reflected) may cease to be satisfied.

GR.4.5 Natural Person

No person other than an individual shall be appointed a **Panel Member** or their alternate.

GR.5 TERM OF OFFICE

The term of office of a **Panel Member**, the **Panel Chairperson** and **Alternate Members** shall be a period expiring on 31 December every second year. A **Panel Member**, the **Panel Chairperson** and **Alternate Member** shall be eligible for reappointment on expiry of their term of office.

GR.6 REMOVAL FROM OFFICE

GR.6.1 A person shall cease to hold office as the **Panel Chairperson**, a **Panel Member** or an **Alternate Member**:

- (a) upon expiry of their term of office unless re-appointed;
- (b) if they:
 - (i) resign from office by notice delivered to the **Panel Secretary**;
 - (ii) become bankrupt or makes any arrangement or composition with their creditors generally;
 - (iii) are or may be suffering from a mental disorder and either are admitted to hospital in pursuance of an application under the Mental Health Act 1983 or the Mental Health (Scotland) Act 1960 or an order is made by a court having jurisdiction in matters

- concerning mental disorder for their detention or for the appointment of a receiver, *curator bonis* or other person with respect to their property or affairs;
- (iv) become prohibited by law from being a director of a company under the Companies Act 1985;
- (v) die; or
- (vi) are convicted on an indictable offence; or

(c) as provided for in GR.3.3(d);

- (d) if the **Grid Code Review Panel** resolves (and the **Authority** does not veto such resolution by notice in writing to the **Panel Secretary** within fifteen (15) **Business Days**) that they should cease to hold office on grounds of their serious misconduct;
- (e) if the **Grid Code Review Panel** resolves (and the **Authority** does not veto such resolution by notice in writing to the **Panel Secretary** within fifteen (15) **Business Days**) that they should cease to hold office due to a change in employer notwithstanding compliance with GR.3.3(d).

GR.6.2 A **Grid Code Review Panel** resolution under GR.6.1(d) or (e) shall, notwithstanding any other paragraph, require the vote in favour of at least all **Panel Members** less one (other than the **Panel Member** or **Alternate Member** who is the subject of such resolution) and for these purposes an abstention shall count as a vote cast in favour of the resolution. A copy of any such resolution shall forthwith be sent to the **Authority** by the **Panel Secretary**.

GR.6.3 A person shall not qualify for appointment as a **Panel Member** or **Alternate Member** if at the time of the proposed appointment they would be required by the above to cease to hold that office.

GR.6.4 The **Panel Secretary** shall give prompt notice to **The Company**, all **Panel Members**, all **Users** and the **Authority** of the appointment or re-appointment of any **Panel Member** or **Alternate Member** or of any **Panel Member** or **Alternate Member** ceasing to hold office and publication on the **Website** and (where relevant details are supplied to the **Panel Secretary**) despatch by electronic mail shall fulfil this obligation.

GR.7 ALTERNATES

GR.7.1 Alternate: Panel Chairperson

The **Panel Chairperson** shall preside at every meeting of the **Grid Code Review Panel** at which they are present. If they are unable to be present at a meeting, they may appoint an alternate (who shall be a senior employee of **The Company**) to act as the **Panel Chairperson**, who may or may not be a **Panel Member**. If neither the **Panel Chairperson** nor their alternate is present at the meeting within half an hour of the time appointed for holding the meeting, the **Panel Members** present may appoint one of their number to be the chairperson of the meeting.

GR.7.2 Alternate(s): other **Panel Members**

- (a) At the same time that the parties entitled to vote in the relevant election appoint **Elected Panel Members** under GR.4.2(a), they shall appoint the following **Alternate Members**:
 - (i) one alternate representative of the **Suppliers**;
 - (ii) one alternate representative of the **Onshore Transmission Licensees**;
 - (iii) one alternate representative of the **Offshore Transmission Licensees**; and
 - (iv) two alternate representatives of the **Generators**.

In the event that the election process fails to appoint an **Alternate Member** for any of the **Elected Panel Members**, each **Elected Panel Member** shall be entitled (but not obligated) to each at their own discretion nominate their own **Alternate Member**.

- (b) Any **Panel Member** that is not an **Elected Panel Member** shall be entitled (but not obligated) to each at their own discretion nominate their own **Alternate Member**.
- (c) A **Panel Member** shall give notice to the **Panel Secretary** in the event it will be represented by an **Alternate Member** for any one **Grid Code Review Panel** meeting.

- (d) Where a **Panel Member** has nominated an **Alternate Member** in accordance with GR.7.2(a) or (b), they may remove such **Alternate Member**, by giving notice of such removal, and any nomination of a different **Alternate Member**, to the **Panel Secretary**. A **Panel Member** may not choose as their **Alternate Member**: any party who is already acting as an **Alternate Member** for another **Panel Member**; or another **Panel Member**.
- (e) All information to be sent by the **Panel Secretary** to **Panel Members** pursuant to these **Governance Rules** shall also be sent by the **Panel Secretary** to each **Alternate Member** by electronic mail (where relevant details shall have been provided by each **Alternate Member**).

GR.7.3 Alternates: General Provisions

- (a) The appointment or removal by a **Panel Member** of an **Alternate Member** shall be effective from the time when such notice is given to the **Panel Secretary** or (if later) the time specified in such notice.
- (b) The **Panel Secretary** shall promptly notify all **Panel Members** and **Users** of appointment or removal by any **Panel Member** of any alternate and publication on the **Website** and (where relevant details have been provided to the **Panel Secretary**) despatch by electronic mail shall fulfil this obligation.

GR.7.4 Alternates: Rights, Cessation and References

- (a) Where the **Panel Chairperson** or a **Panel Member** has appointed an alternate:
 - (i) the alternate shall be entitled:
 - i. unless the appointing **Panel Member** shall otherwise notify the **Panel Secretary**, to receive notices of meetings of the **Grid Code Review Panel**;
 - ii. to attend, speak and vote at any meeting of the **Grid Code Review Panel** at which the **Panel Member** by whom they were appointed is not present, and at such meeting to exercise and discharge all of the functions, duties and powers of such **Panel Member**;
 - (ii) the **Alternate Member** shall have the same voting rights the **Panel Member** in whose place they are attending;
 - (iii) GR.8, GR.9, GR.10, GR.11 and GR.12 shall apply to the **Alternate Member** as if they were the appointing **Panel Member** and a reference to a **Panel Member** elsewhere in the **Grid Code** shall, unless the context otherwise requires, include their duly appointed **Alternate Member**.
 - (iv) for the avoidance of doubt, the appointing **Panel Member** shall not enjoy any of the rights transferred to the **Alternate Member** at any meeting at which, or in relation to any matter on which, the **Alternate Member** acts on their behalf.
- (b) A person appointed as an **Alternate Member** shall automatically cease to be such **Alternate Member**:
 - (i) if the appointing **Panel Member** ceases to be a **Panel Member**;
 - (ii) if any of the circumstances in GR.6.1(b) applies in relation to such person, but, in the case of a person elected as an **Alternate Member**, they shall continue to be an **Alternate Member** available for appointment under GR.7.2.

GR.8 MEETINGS

GR.8.1 Meetings of the **Grid Code Review Panel** shall be held at regular intervals and at least every 2 months at such time and such place as the **Grid Code Review Panel** shall decide.

GR.8.2 A regular meeting of the **Grid Code Review Panel** may be cancelled if:

- (a) the **Panel Chairperson** considers, having due regard to the lack of business in the agenda, that there is insufficient business for the **Grid Code Review Panel** to conduct and requests the **Panel Secretary** to cancel the meeting;
- (b) the **Panel Secretary** notifies all **Panel Members**, not less than five (5) **Business Days** before the date for which the meeting is to be convened, of the proposal to cancel the meeting; and
 - (c) by the time three (3) **Business Days** before the date for which the meeting is or is to be convened, no **Panel Member** has notified the **Panel Secretary** that they object to such cancellation.

GR.8.3 If any **Panel Member** wishes, acting reasonably, to hold a special meeting (in addition to regular meetings under GR.8.1) of the **Grid Code Review Panel**:

- (a) they shall request the **Panel Secretary** to convene such a meeting and inform the **Panel Secretary** of the matters to be discussed at the meeting;
- (b) the **Panel Secretary** shall promptly convene the special meeting for a day as soon as practicable but not less than five (5) **Business Days** after such request.

GR.8.4 Any meeting of the **Grid Code Review Panel** shall be convened by the **Panel Secretary** by notice (which will be given by electronic mail if the relevant details are supplied to the **Panel Secretary**) to each **Panel Member** (and to the **Authority**):

- (a) setting out the date, time and place of the meeting and (unless the **Grid Code Review Panel** has otherwise decided) given at least five (5) **Business Days** before the date of the meeting;
- (b) accompanied by an agenda of the matters for consideration at the meeting and any supporting papers available to the **Panel Secretary** at the time the notice is given (and the **Panel Secretary** shall circulate to **Panel Members** any late papers as and when they are received by them).

GR.8.5 The **Panel Secretary** shall send a copy of the notice convening a meeting of the **Grid Code Review Panel**, and the agenda and papers accompanying the notice, to the **Panel Members and Alternate Members**, and publication on the **Website** and despatch by electronic mail (if the relevant details are supplied to the **Panel Secretary**) shall fulfil this obligation.

GR.8.6 Any **Panel Member** (or, at the **Panel Member's** request, the **Panel Secretary**) may notify matters for consideration at a meeting of the **Grid Code Review Panel** in addition to those notified by the **Panel Secretary** under GR.8.4 by notice to all **Panel Members** and persons entitled to receive notice under GR.8.5, not less than three (3) **Business Days** before the date of the meeting.

GR.8.7 The proceedings of a meeting of the **Grid Code Review Panel** shall not be invalidated by the accidental omission to give or send notice of the meeting or a copy thereof or any of the accompanying agenda or papers to, or failure to receive the same by, any person entitled to receive such notice, copy, agenda or paper.

GR.8.8 A meeting of the **Grid Code Review Panel** may consist of a conference between **Panel Members** who are not all in one place but who are able (by telephone or otherwise) to speak to each of the others and to be heard by each of the others simultaneously.

GR.8.9 With the consent of all **Panel Members** (whether obtained before, at or after any such meeting) the requirements of this GR.8 as to the manner in and notice on which a meeting of the **Grid Code Review Panel** is convened may be waived or modified provided that no meeting of the **Grid Code Review Panel** shall be held unless notice of the meeting and its agenda has been sent to the persons entitled to receive the same under GR.8.5 at least 24 hours before the time of the meeting.

- GR.8.10 Subject to GR.8.11, no matter shall be resolved at a meeting of the **Grid Code Review Panel** unless such matter was contained in the agenda accompanying the **Panel Secretary's** notice under GR.8.4 or was notified in accordance with GR.8.6.
- GR.8.11 Where:
- (a) any matter (not contained in the agenda and not notified pursuant to GR.8.4 and GR.8.6) is put before a meeting of the **Grid Code Review Panel**, and
 - (b) in the opinion of the **Grid Code Review Panel** it is necessary (in view of the urgency of the matter) that the **Grid Code Review Panel** resolve upon such matter at the meeting, the **Grid Code Review Panel** may so resolve upon such matter, and the **Grid Code Review Panel** shall also determine at such meeting whether the decision of the **Grid Code Review Panel** in relation to such matter should stand until the following meeting of the **Grid Code Review Panel**, in which case (at such following meeting) the decision shall be reviewed and confirmed or (but not with effect earlier than that meeting, and only so far as the consequences of such revocation do not make implementation of the **Grid Code** or compliance by **Users** with it impracticable) revoked.
- GR.9 PROCEEDINGS AT MEETINGS
- GR.9.1 Subject as provided in the **Grid Code**, the **Grid Code Review Panel** may regulate the conduct of and adjourn and reconvene its meetings as it sees fit.
- GR.9.2 Meetings of the **Grid Code Review Panel** shall be open to attendance by a representative of any **User** (including any **Authorised Electricity Operator**; **The Company** or a **Materially Affected Party**), the **Citizens Advice** or the **Citizens Advice Scotland** and any person invited by the **Panel Chairperson** and/or any other **Panel Member**.
- GR.9.3 The **Panel Chairperson** and any other **Panel Member** may invite any person invited by them under GR.9.2, and/or any attending representative of a **User**, to speak at the meeting (but such person shall have no vote).
- GR.9.4 As soon as practicable after each meeting of the **Grid Code Review Panel**, the **Panel Secretary** shall prepare and send (by electronic mail or otherwise) to **Panel Members** the minutes of such meeting, which shall be (subject to GR.9.5) approved (or amended and approved) at the next meeting of the **Grid Code Review Panel** after they were so sent, and when approved (excluding any matter which the **Grid Code Review Panel** decided was not appropriate for such publication) shall be placed on the **Website**.
- GR.9.5 If, following the circulation of minutes (as referred to in GR.9.4), the meeting of the **Grid Code Review Panel** at which they were to be approved is cancelled pursuant to GR.8.2, such minutes (including any proposed changes thereto which have already been received) shall be recirculated with the notification of the cancellation of the meeting of the **Grid Code Review Panel**. **Panel Members** shall confirm their approval of such minutes to the **Panel Secretary** (by electronic mail) no later than five (5) **Business Days** following such minutes being re-circulated. If no suggested amendments are received within such five (5) **Business Days** period, the minutes will be deemed to have been approved. If the minutes are approved, or deemed to have been approved, (excluding any matter which the **Grid Code Review Panel** decided was not appropriate for such publication) they shall be placed on the **Website**. If suggested amendments are received within such five (5) **Business Days** period, the minutes shall remain unapproved and the process for approval (or amendment and approval) of such minutes at the next meeting of the **Grid Code Review Panel**, as described in GR.9.4, shall be followed.
- GR.10 QUORUM
- GR.10.1 No business shall be transacted at any meeting of the **Grid Code Review Panel** unless a quorum is present throughout the meeting.
- GR.10.2 Subject to GR.10.4, a quorum shall be 6 **Panel Members** who have a vote present (subject to GR.8.8) in person or by their alternates, of whom at least one shall be appointed by **The Company**. Where a **Panel Member** is represented by an **Alternate Member**, that

Alternate Member cannot represent any other **Panel Member** at the same meeting.

- GR.10.3 If within half an hour after the time for which the meeting of the **Grid Code Review Panel** has been convened a quorum is not present (and provided the **Panel Secretary** has not been notified by **Panel Members** that they have been delayed and are expected to arrive within a reasonable time):
- (a) the meeting shall be adjourned to the same day in the following week (or, if that day is not a **Business Day** the next **Business Day** following such day) at the same time;
 - (b) the **Panel Secretary** shall give notice of the adjourned meeting as far as practicable in accordance with GR.8.
- GR.10.4 If at the adjourned meeting there is not a quorum present within half an hour after the time for which the meeting was convened, those present shall be a quorum.
- GR.11 VOTING
- GR.11.1 At any meeting of the **Grid Code Review Panel** any matter to be decided which shall include the **Grid Code Review Panel Recommendation Vote** shall be put to a vote of those **Panel Members** entitled to vote in accordance with these **Governance Rules** upon the request of the **Panel Chairperson** or any **Panel Member**.
- GR.11.2 Subject to GR.11.4, in deciding any matter at any meeting of the **Grid Code Review Panel** each **Panel Member** other than the **Panel Chairperson** shall cast one vote.
- GR.11.3 Except as otherwise expressly provided in the Grid Code, and in particular GR.6.2, any matter to be decided at any meeting of the **Grid Code Review Panel** shall be decided by simple majority of the votes cast at the meeting (an abstention shall not be counted as a cast vote).
- GR.11.4 The **Panel Chairperson** shall not cast a vote as a **Panel Member** but shall have a casting vote on any matter where votes are otherwise cast equally in favour of and against the relevant motion. Where the vote is in respect of a **Grid Code Modification Proposal** the **Panel Chairperson** may only use such casting vote to vote against such **Grid Code Modification Proposal**. The **Panel Chairperson** will have a free vote in respect of any other vote. Where any person other than the actual **Panel Chairperson** is acting as chairperson they shall not have a casting vote.
- GR.11.5 Any resolution in writing signed by or on behalf of all **Panel Members** shall be valid and effectual as if it had been passed at a duly convened and quorate meeting of the **Grid Code Review Panel**. Such a resolution may consist of several instruments in like form signed by or on behalf of one or more **Panel Members**.
- GR.12 PROTECTIONS FOR PANEL MEMBERS
- GR.12.1 Subject to GR.12.2 all **CUSC Parties** shall jointly and severally indemnify and keep indemnified each **Panel Member**, the **Panel Secretary** and each member of a **Workgroup** ("Indemnified Persons") in respect of all costs (including legal costs), expenses, damages and other liabilities properly incurred or suffered by such Indemnified Persons when acting in or in connection with their office under the **Grid Code**, or in what they in good faith believe to be the proper exercise and discharge of the powers, duties, functions and discretions of that office in accordance with the **Grid Code**, and all claims, demands and proceedings in connection therewith other than any such costs, expenses, damages or other liabilities incurred or suffered as a result of the wilful default or bad faith of such Indemnified Person.
- GR.12.2 The indemnity provided in GR.12.1 shall not extend to costs and expenses incurred in the ordinary conduct of being a **Panel Member** or **Panel Secretary**, or member of a **Workgroup** including, without limitation, accommodation costs and travel costs or any remuneration for their services to the **Grid Code Review Panel** or **Workgroup**.
- GR.12.3 The **Users** agree that no Indemnified Person shall be liable for anything done when acting

properly in or in connection with their office under the **Grid Code**, or anything done in what they in good faith believe to be the proper exercise and discharge of the powers, duties, functions and discretions of that office in accordance with the **Grid Code**. Each **CUSC Party** hereby irrevocably and unconditionally waives any such liability of any Indemnified Person and any rights, remedies and claims against any Indemnified Person in respect thereof.

- GR.12.4 Without prejudice to GR.12.2, nothing in GR.12.3 shall exclude or limit the liability of an Indemnified Person for death or personal injury resulting from the negligence of such Indemnified Person.

PART C

GR.13 GRID CODE MODIFICATION REGISTER

- GR.13.1 The **Code Administrator** shall establish and maintain a register ("**Grid Code Modification Register**") in a form as may be agreed with the **Authority** from time to time, which shall record the matters set out in GR.13.3.

- GR.13.2 The purpose of the **Grid Code Modification Register** shall be to assist the **Grid Code Review Panel** and to enable the **Grid Code Review Panel, Users** and any other persons who may be interested to be reasonably informed of the progress of **Grid Code Modification Proposals** and **Approved Modifications** from time to time.

- GR.13.3 The **Grid Code Modification Register** shall record in respect of current outstanding **Grid Code Review Panel** business:

- (a) details of each **Grid Code Modification Proposal** (including the name of the **Proposer**, the date of the **Grid Code Modification Proposal** and a brief description of the **Grid Code Modification Proposal**);
- (b) whether such **Grid Code Modification Proposal** is an **Urgent Modification**;
- (c) the current status and progress of each **Grid Code Modification Proposal**, if appropriate the anticipated date for reporting to the **Authority** in respect thereof, and whether it has been withdrawn, rejected or implemented for a period of three (3) months after such withdrawal, rejection or implementation or such longer period as the **Authority** may determine;
- (d) the current status and progress of each **Approved Modification**, each **Approved Grid Code Self-Governance Proposal**, and each **Approved Fast Track Proposal**; and
- (e) such other matters as the **Grid Code Review Panel** may consider appropriate from time to time to achieve the purpose of GR.13.2;
- (f) unless such **Grid Code Modification Proposal** has been determined to be an **Urgent Modification** or meets the **Fast Track Criteria**, the **Prioritisation Category** accorded to the **Grid Code Modification Proposal**, and details of the assessment of each **Grid Code Modification Proposal** against the **Prioritisation Criteria** carried out in GR18.10; and
- (g) where the **Prioritisation Category** of a **Grid Code Modification Proposal** is changed, confirmation of the change alongside the reason for the change.

- GR.13.4 The **Grid Code Modification Register** (as updated from time to time and indicating the revisions since the previous issue) shall be published on the **Website** or (in the absence, for whatever reason, of the **Website**) in such other manner and with such frequency (being not less than once per month) as the **Code Administrator** may decide in order to bring it to the attention of the **Grid Code Review Panel, Users** and other persons who may be interested.

GR.14 CHANGE CO-ORDINATION

- GR.14.1 The **Code Administrator** shall establish (and, where appropriate, revise from time to time) joint working arrangements for change co-ordination with each **Core Industry Document Owner** and with the **STC Modification Panel** to facilitate the identification, co-ordination, making and implementation of change to **Core Industry Documents** and the **STC** consequent on a **Grid Code Modification Proposal**, including, but not limited to, changes that are appropriate in order to avoid conflict or inconsistency as between the **Grid Code** and any **Core Industry Document** and the **STC**, in a full and timely manner.
- GR.14.2 The working arrangements referred to in GR.14.1 shall be such as to enable the consideration, development and evaluation of **Grid Code Modification Proposals**, and the implementation of **Approved Modifications**, to proceed in a full and timely manner and enable changes to **Core Industry Documents** and the **STC** consequent on an amendment to be made and given effect wherever possible (subject to any necessary consent of the **Authority**) at the same time as such **Grid Code Modification Proposal** is made and given effect.
- GR.15 GRID CODE MODIFICATION PROPOSALS
- GR.15.1 A proposal to modify the Grid Code may be made:
- (a) by any **User**; any **Authorised Electricity Operator** liable to be materially affected by such a proposal; the **Citizens Advice** or the **Citizens Advice Scotland**;
 - (b) under GR.25.5, by the **Grid Code Review Panel**; or
 - (c) by the **Authority**:
 - (i) following publication of its **Significant Code Review** conclusions; or
 - (ii) under GR.17; or
 - (iii) in order to comply with or implement the **Electricity Regulation** and/or any relevant **Legally Binding Decisions of the European Commission and/or the Agency**.
- GR.15.2 A **Standard Modification** shall follow the procedure set out in GR.18 to GR.22.
- GR.15.3 A **Grid Code Modification Proposal** shall be submitted in writing to the **Panel Secretary** and, subject to the provisions of GR.15.4 below, shall contain the following information in relation to such proposal:
- (a) the name of the **Proposer**;
 - (b) the name of the representative of the **Proposer** who shall represent the **Proposer** in person for the purposes of this GR.15;
 - (c) a description (in reasonable but not excessive detail) of the issue or defect which the proposed modification seeks to address;
 - (d) a description (in reasonable but not excessive detail) of the proposed modification and of its nature and purpose;
 - (e) where possible, an indication of those parts of the Grid Code which would require amendment in order to give effect to (and/or would otherwise be affected by) the proposed modification and an indication of the nature of those amendments or effects;
 - (f) the reasons why the **Proposer** believes that the proposed modification would better facilitate achievement of the **Grid Code Objectives** as compared with the current version of the Grid Code together with background information in support thereof;
 - (g) the reasoned opinion of the **Proposer** as to why the proposed modification should not fall within a current **Significant Code Review**, whether the proposed modification should be treated as a **Self-Governance Modification** or whether the proposed

modification fails to meet the **Self- Governance Criteria** and as a result should proceed along the **Standard Modification** route;

- (h) the reasoned opinion of the **Proposer** as to whether that impact is likely to be material and if so an assessment of the quantifiable impact of the proposed modification on greenhouse gas emissions, to be conducted in accordance with such current guidance on the treatment of carbon costs and evaluation of the greenhouse gas emissions as may be issued by the **Authority** from time to time;
- (i) where possible, an indication of the impact of the proposed modification on **Core Industry Documents** and the **STC**;
- (j) where possible, an indication of the impact of the proposed modification on relevant computer systems and processes used by **Users**.
- (k) whether or not (and to the extent) that in the proposer's view the **Grid Code Modification Proposal** constitutes an amendment to the **Regulated Sections** of the Grid Code; and
- (l) an assessment by the **Proposer** of the **Grid Code Modification Proposal** against the **Prioritisation Criteria**.

GR.15.4 The **Proposer** of a **Grid Code Fast Track Proposal** is not required to provide the items referenced at GR.15.3 (f) – (j) inclusive, unless either:

- (a) the **Grid Code Review Panel** has, pursuant to GR.26.5 or GR.26.6, not agreed unanimously that the **Grid Code Fast Track Proposal** meets the **Fast Track Criteria**, or has not unanimously approved the **Grid Code Fast Track Proposal**; or
- (b) there has been an objection to the **Approved Fast Track Proposal** pursuant to GR.26.12, whereupon the **Proposer** shall be entitled to provide the additional information required pursuant to GR.15.3 for a **Grid Code Modification Proposal** within 28 days of the **Panel Secretary's** request. Where the **Proposer** fails to provide the additional information in accordance with such timescales, the **Panel Secretary** may reject such proposal in accordance with GR.15.5.

GR.15.5 If a proposal fails in any material respect to provide the information in GR.15.3 (excluding (e), (i) and (j) thereof), the **Panel Secretary** may reject such proposal provided that:

- (a) the **Panel Secretary** shall furnish the **Proposer** with the reasons for such rejection;
- (b) the **Panel Secretary** shall report such rejection to the **Grid Code Review Panel** at the next **Grid Code Review Panel** meeting, with details of the reasons;
- (c) if the **Grid Code Review Panel** decides or the **Authority** directs to reverse the **Panel Secretary's** decision to refuse the submission, the **Panel Secretary** shall notify the **Proposer** accordingly and the proposal shall be dealt with in accordance with these **Governance Rules**;
- (d) nothing in these **Governance Rules** shall prevent a **Proposer** from submitting a revised proposal in compliance with the requirements of GR.15.3 in respect of the same subject-matter.

GR.15.6 Without prejudice to the development of a **Workgroup Alternative Grid Code Modification(s)** pursuant to GR.20.13 and GR.20.18, the **Grid Code Review Panel** shall direct in the case of (a), and may direct in the case of (b), the **Panel Secretary** to reject a proposal pursuant to GR.15, other than a proposal submitted by **The Company** pursuant to a direction issued by the **Authority** following a **Significant Code Review** in accordance with GR.16.4, or an Authority Led modification, if and to the extent that such proposal has, in the opinion of the **Grid Code Review Panel**, substantially the same effect as:

- (a) a **Pending Grid Code Modification Proposal**; or

- (b) a **Rejected Grid Code Modification Proposal**, where such proposal is made at any time within two (2) months after the decision of the **Authority** not to direct **The Company** to modify the Grid Code pursuant to the **ESO Licence** in the manner set out in such **Grid Code Modification Proposal**, and the **Panel Secretary** shall notify the **Proposer** accordingly.

GR.15.7 Promptly upon receipt of a **Grid Code Modification Proposal**, the **Panel Secretary** shall:

- (a) allocate a unique reference number to the **Grid Code Modification Proposal**;
- (b) enter details of the **Grid Code Modification Proposal** on the **Grid Code Modification Register**;
- (c) reserve the right to modify the title or summary of the **Grid Code Modification Proposal** to better reflect the content or intent of the proposal. If such changes are made these shall be agreed by the **Proposer**, or where this cannot be achieved by the **Grid Code Review Panel** at their next meeting; and
- (d) note whether in the proposer's view the **Grid Code Modification Proposal** constitutes an amendment to the **Regulated Sections** of the Grid Code.

GR.15.8 Subject to GR.8.6 and GR.26, where the **Grid Code Modification Proposal** is received more than ten (10) **Business Days** prior to the next **Grid Code Review Panel** meeting, the **Panel Secretary** shall place the **Grid Code Modification Proposal** on the agenda of the next **Grid Code Review Panel** meeting and otherwise shall place it on the agenda of the next succeeding **Grid Code Review Panel** meeting.

GR.15.9 It shall be a condition to the right to make a proposal to modify the **Grid Code** under this GR.15 that the **Proposer**:

- (a) grants a non-exclusive royalty free licence to all **Users** who request the same covering all present and future rights, **IPRs** and moral rights it may have in such proposal (as regards use or application in Great Britain); and
- (b) warrants that, to the best of its knowledge, information and belief, no other person has asserted to the **Proposer** that such person has any **IPRs** or normal rights or rights of confidence in such proposal, and, in making a proposal, a **Proposer** which is a **Grid Code Party** shall be deemed to have granted the licence and given the warranty in (a) and (b) above.
- (c) The provisions of this GR.15.9 shall apply to any **WG Consultation Alternative Request**, and also to a **Relevant Party** supporting a **Grid Code Modification Proposal** in place of the original **Proposer** in accordance with GR.15.10 (a) for these purposes the term **Proposer** shall include any such **Relevant Party** or a person making such a **WG Consultation Alternative Request**.

GR.15.10 Subject to GR.16.1, which deals with the withdrawal of a **Grid Code Modification Proposal** made pursuant to a direction following a **Significant Code Review**, a **Proposer** may withdraw their support for a **Standard Modification** by notice to the **Panel Secretary** at any time prior to the **Grid Code Review Panel Recommendation Vote** undertaken in relation to that **Standard Modification** pursuant to GR.22.4, and a **Proposer** may withdraw their support for a **Grid Code Modification Proposal** that meets the **Self-Governance Criteria** by notice to the **Panel Secretary** at any time prior to the **Grid Code Review Panel Self-Governance Vote** undertaken in relation to that **Grid Code Modification Proposal** pursuant to GR.24.9, and a **Proposer** may withdraw their support for a **Grid Code Fast Track Proposal** by notice to the **Panel Secretary** at any time prior to the **Panel's** vote on whether to approve the **Grid Code Fast Track Proposal** pursuant to GR.26 in which case the **Panel Secretary** shall forthwith:

- (a) notify those parties specified in GR.15.1 as relevant in relation to the **Grid Code Modification Proposal** in question (a “**Relevant Party**”) that they have been notified of the withdrawal of support by the **Proposer** by publication on the **Website** and (where relevant details are supplied) by electronic mail. A **Relevant Party** may within five (5) **Business Days** notify the **Panel Secretary** that it is prepared to support the **Grid Code Modification Proposal** in place of the original **Proposer**. If such notice is received, the name of such **Relevant Party** shall replace that of the original **Proposer** as the **Proposer**, and the **Grid Code Modification Proposal** shall continue. If more than one notice is received, the first received shall be utilised;
- (b) if no notice of support is received under (a), the matter shall be discussed at the next **Grid Code Review Panel** meeting. If the **Grid Code Review Panel** so agrees, it may notify **Relevant Parties** that the **Grid Code Modification Proposal** is to be withdrawn, and a further period of five (5) **Business Days** shall be given for support to be indicated by way of notice;
- (c) if no notice of support is received under (a) or (b), the **Grid Code Modification Proposal** shall be marked as withdrawn on the **Grid Code Modification Register**; **Code Administrator** as Critical Friend.

GR.15.11 The **Code Administrator** shall provide assistance insofar as is reasonably practicable and on reasonable request to parties with an interest in the **Grid Code Modification Proposal** process that request it in relation to the **Grid Code**, as provided for in the **Code Administration Code of Practice**, including, but not limited to, assistance with:

- (a) Drafting a **Grid Code Modification Proposal**;
- (b) Understanding the operation of the **Grid Code**;
- (c) Their involvement in, and representation during, the **Grid Code Modification Proposal** process (including but not limited to **Grid Code Review Panel**, and/or **Workgroup** meetings) as required or as described in the **Code Administration Code of Practice**;
- (d) Helping the **Proposer** and **Workgroup** by producing draft legal text once a clear solution has been developed to support the discussion and understanding of a **Grid Code Modification Proposal**; and
- (e) accessing information relating to **Grid Code Modification Proposals** and/or **Approved Modifications**.

GR.16 SIGNIFICANT CODE REVIEW

GR.16.1 If any party specified under GR.15.1 (other than the **Authority**) makes a **Grid Code Modification Proposal** during a **Significant Code Review Phase**, unless exempted by the **Authority** or unless GR.16.4(b) applies, the **Grid Code Review Panel** shall assess whether the **Grid Code Modification Proposal** falls within the scope of a **Significant Code Review** and the applicability of the exceptions set out in GR.16.4 and shall notify the **Authority** of its assessment, its reasons for that assessment and any representations received in relation to it as soon as practicable.

GR.16.2 The **Grid Code Review Panel** shall proceed with the **Grid Code Modification Proposal** made during a **Significant Code Review Phase** in accordance with GR.18 (notwithstanding any consultation undertaken pursuant to GR.16.5 and its outcome), unless directed otherwise by the **Authority** pursuant to GR.16.3.

GR.16.3 Subject to GR.16.4, the **Authority** may at any time direct that a **Grid Code Modification Proposal** made during a **Significant Code Review Phase** falls within the scope of a **Significant Code Review** and must not be made during the **Significant Code Review Phase**. If so directed, the **Grid Code Review Panel** will not proceed with that **Grid Code Modification Proposal**, and the **Proposer** shall decide whether the **Grid Code Modification Proposal** shall be withdrawn or suspended until the end of the **Significant Code Review Phase**. If the **Proposer** fails to indicate its decision whether to withdraw or

suspend the **Grid Code Modification Proposal** within twenty-eight (28) days of the **Authority's** direction, it shall be deemed to be suspended. If the **Grid Code Modification Proposal** is suspended, it shall be open to the **Proposer** at the end of the **Significant Code Review Phase** to indicate to the **Grid Code Review Panel** that it wishes that **Grid Code Modification Proposal** to proceed, and it shall be considered and taken forward in the manner decided upon by the **Grid Code Review Panel** at the next meeting, and it is open to the **Grid Code Review Panel** to take into account any work previously undertaken in respect of that **Grid Code Modification Proposal**. If the **Proposer** makes no indication to the **Grid Code Review Panel** within twenty-eight (28) days of the end of the **Significant Code Review Phase** as to whether or not it wishes the **Grid Code Modification Proposal** to proceed, it shall be deemed to be withdrawn.

- GR.16.4 A **Grid Code Modification Proposal** that falls within the scope of a **Significant Code Review** may be made where:
- (a) the **Authority** so determines, having taken into account (among other things) the urgency of the subject matter of the **Grid Code Modification Proposal**; or
 - (b) the **Grid Code Modification Proposal** is made by **The Company** pursuant to a direction from the **Authority**; or
 - (c) it is raised by the **Authority** pursuant to GR15.1(c)(i) who reasonably considers the **Grid Code Modification Proposal** to be necessary to comply with or implement the **Electricity Regulation** and/or any relevant **Legally Binding Decisions of the European Commission and/or the Agency**;
 - (d) it is raised by the **Authority** and is in respect of a **Significant Code Review**.
- GR.16.5 Where a direction under GR.16.3 has not been issued, GR.16.4 does not apply and the **Grid Code Review Panel** considers that a **Grid Code Modification Proposal** made during a **Significant Code Review Phase** falls within the scope of a **Significant Code Review**, the **Grid Code Review Panel** may consult on its suitability as part of the **Standard Modification** route set out in GR.19, GR.20, GR.21 and GR.22.
- GR.16.6 If, within twenty eight (28) days after the **Authority** has published its **Significant Code Review** conclusions:
- (a) the **Authority** issues directions to **The Company**, including directions to **The Company** to make a **Grid Code Modification Proposal**, **The Company** shall comply with those directions and **The Company** and all **Users** shall treat the **Significant Code Review Phase** as ended on the date on which **The Company** makes a **Grid Code Modification Proposal** in accordance with the **Authority's** directions;
 - (b) the **Authority** issues to the **The Company** a statement that no directions under sub-paragraph (a) will be issued in relation to a **Grid Code Modification Proposal**, **The Company** and all **Users** shall treat the **Significant Code Review Phase** as ended on the date of such statement;
 - (c) the **Authority** raises a **Grid Code Modification Proposal** in accordance with GR.15.1(c) or GR.17 **The Company** and all **Users** shall treat the **Significant Code Review Phase** as ended;
 - (d) the **Authority** issues a statement that it will continue work on the **Significant Code Review**, **The Company** and all **Users** shall treat the **Significant Code Review Phase** as continuing until it is brought to an end in accordance with GR.16.7;
 - (e) neither directions under sub-paragraph (a) nor a statement under sub-paragraphs (b) or (d) have been issued, nor a **Grid Code Modification Proposal** under sub-paragraph (c) has been made, the **Significant Code**

Review Phase will be deemed to have ended. The **Authority's** published conclusions and directions to **The Company** will not fetter any voting rights of the **Panel Members** or the procedures informing the **Grid Code Modification Report**.

- GR.16.7 If the **Authority** issues a statement under GR.16.6(d) and/or a direction in accordance with GR.16.10, the **Significant Code Review Phase** will be deemed to have ended when:
- (a) the **Authority** issues a statement that the **Significant Code Review Phase** has ended;
 - (b) one of the circumstances in sub-paragraphs GR.16.6(a) or (c) occurs (irrespective of whether such circumstance occurs within twenty-eight (28) days after the **Authority** has published its **Significant Code Review** conclusions); or
 - (c) the **Authority** makes a decision consenting, or otherwise, to an **Authority-Led Modification** following the **Grid Code Review Panel's** submission of its **Grid Code Modification Report**.
- GR.16.8 Any **Grid Code Modification Proposal** in respect of a **Significant Code Review** that is not an **Authority-Led Modification** raised pursuant to GR.17 shall be treated as a **Standard Modification** and shall proceed through the process for **Standard Modifications** set out in GR.18, GR.19, GR.20, GR.21 and GR.22.
- GR.16.9 **The Company** may not, without the prior consent of the **Authority**, withdraw a **Grid Code Modification Proposal** made pursuant to a direction issued by the **Authority** pursuant to GR.16.4(b)).
- GR.16.10 Where a **Grid Code Modification Proposal** has been raised in accordance with GR.16.4(b) or GR.15.1(a), or by the **Authority** under GR.15.1(c) and it is in respect of a **Significant Code Review**, the **Authority** may issue a direction (a "backstop direction"), which requires such proposal(s) and any alternatives to be withdrawn and which causes the **Significant Code Review Phase** to recommence.
- GR.17 **AUTHORITY LED MODIFICATIONS**
- Power to develop a proposed modification
- GR.17.1 The **Authority** may develop an **Authority-Led Modification** in respect of a **Significant Code Review**, in accordance with the procedures set out in this GR.17.
- GR.17.2 An **Authority-led Modification** may be submitted where the **Significant Code Review Phase** is extended by a statement issued by the **Authority** as described in GR.16.6(d), or where a direction is issued under GR.16.10.
- Authority-Led Modification Report
- GR.17.3 The **Authority** may submit its proposed **Authority-Led Modification** to the **Code Administrator**, together with such supplemental information as the **Authority** considers appropriate.
- GR.17.4 Upon receipt of the **Authority's** proposal under GR.17.3, the **Code Administrator** shall prepare a written report on the proposal (the "**Authority-Led Modification Report**"). Where the **Code Administrator** does not reasonably believe the information provided by the **Authority** under 17.3 to be sufficient for it to prepare an **Authority-Led Modification Report** the **Code Administrator** will notify the **Authority** as soon as reasonably practical. The **Authority-Led Modification Report** must be consistent with the information provided by the **Authority** under GR.17.3, and shall:

- (a) be addressed and delivered to the **Grid Code Review Panel**;
- (b) set out the legal text of the proposed **Authority-Led Modification**;
- (c) include a description of the proposed **Authority-Led Modification**;
- (d) include a summary of the views (including any recommendations) from parties consulted in respect of the proposed **Authority-Led Modification**;
- (e) include an analysis of whether (and, if so, to what extent) the proposed **Authority-Led Modification** would better facilitate achievement of the **Grid Code Objective(s)** with a detailed explanation of the **Authority's** reasons for its assessment, including, where the impact is likely to be material, an assessment of the quantifiable impact of the proposed **Authority-Led Modification** on greenhouse gas emissions, to be conducted in accordance with such current guidance on the treatment of carbon costs and evaluation of the greenhouse gas emissions as may be issued by the **Authority** from time to time, and providing a detailed explanation of the **Authority's** reasons for that assessment;
- (f) specify the proposed implementation timetable (including the **Proposed Implementation Date**);
- (g) provide an assessment of:
 - (i) the impact of the proposed **Authority-Led Modification** on the **Core Industry Documents** and the **STC**;
 - (ii) the changes which would be required to the **Core Industry Documents** and the **STC** in order to give effect to the proposed **Authority-Led Modification**;
 - (iii) the mechanism and likely timescale for the making of the changes referred to in (ii);
 - (iv) the changes and/or developments which would be required to central computer systems and, if practicable, processes used in connection with the operation of arrangements established under the **Core Industry Documents** and the **STC**;
 - (v) the mechanism and likely timescale for the making of the changes referred to in (iv);
 - (vi) an estimate of the costs associated with making and delivering the changes referred to in (ii) and (iv), such costs are expected to relate to: for (ii) the costs of amending the **Core Industry Document(s)** and **STC** and for (iv) the costs of changes to computer systems and possibly processes which are established for the operation of the **Core Industry Documents** and the **STC**, together with an analysis and a summary of representations in relation to such matters, including any made by **Small Participants**, the **Citizens Advice** and the **Citizens Advice Scotland**;
- (h) contain, to the extent such information is available to the **Code Administrator**, an assessment of the impact of the proposed **Authority-Led Modification** on **Users** in general (or classes of **Users**), including the changes which are likely to be required to their internal systems and processes and an estimate of the development, capital and operating costs associated with implementing the changes to the **Grid Code** and to **Core Industry Documents** and the **STC**;
- (i) include copies of (and a summary of) all written representations or objections made by parties consulted by the **Authority** in respect of the proposed **Authority-Led Modification** and subsequently maintained; and
- (j) have appended a copy of any impact assessment prepared by **Core Industry Document Owners** and the **STC** committee and the views and comments of the **Code Administrator** in respect thereof.

GR.17.5

Where the **Authority-Led Modification Report** is received more than ten (10) **Business Days** prior to the next **Grid Code Review Panel** meeting, the **Panel Secretary** shall place the proposed **Authority-Led Modification** on the agenda of the next **Grid Code Review Panel** meeting and otherwise shall place it on the agenda of the next succeeding **Grid**

Code Review Panel meeting.

Grid Code Review Panel Decision

- GR.17.6 In the case of **Authority-Led Modifications** GR.22 shall apply, save for GR.22.1 and GR.22.2 and the **Authority-Led Modification Report** shall be used as the draft **Grid Code Modification Report**.
- GR.17.7 Where an **Authority-Led Modification** has been approved in accordance with Section GR.22, GR.25 (Implementation) shall apply.
- GR.18 GRID CODE MODIFICATION PROPOSAL EVALUATION
- GR.18.1 This GR.18 is subject to the **Urgent Modification** procedures set out in GR.23 and the **Significant Code Review** procedures set out in GR.16.
- GR.18.2 A **Grid Code Modification Proposal** shall, subject to GR.15.8, be discussed by the **Grid Code Review Panel** at the next following **Grid Code Review Panel** meeting convened.
- GR.18.3 The **Proposer's** representative shall attend such **Grid Code Review Panel** meeting and the **Grid Code Review Panel** may invite the **Proposer's** representative to present their **Grid Code Modification Proposal** to the **Grid Code Review Panel**.
- GR.18.4 The **Grid Code Review Panel** shall evaluate each **Grid Code Modification Proposal** against the **Self-Governance Criteria**.
- GR.18.5 The **Grid Code Review Panel** shall follow the procedure set out in GR.24 in respect of any **Modification** that the **Grid Code Review Panel** considers meets the **Self-Governance Criteria** unless the **Authority** makes a direction in accordance with GR.24.2 and in such a case that **Modification** shall be a **Standard Modification** and shall follow the procedure set out in GR.19, GR.20, GR.21 and GR.22.
- GR.18.6 Unless the **Authority** makes a direction in accordance with GR.24.4, a **Modification** that the **Grid Code Review Panel** considers does not meet the **Self-Governance Criteria** shall be a **Standard Modification** and shall follow the procedure set out in GR.19, GR.20, GR.21 and GR.22.
- GR.18.7 The **Grid Code Review Panel** shall evaluate each **Grid Code Fast Track Proposal** against the **Fast Track Criteria**.
- GR.18.8 The **Grid Code Review Panel** shall follow the procedure set out in GR.26 in respect of any **Grid Code Fast Track Proposal**. The provisions of GR.19 to GR.24 shall not apply to a **Grid Code Fast Track Proposal**.
- GR.18.9 The **Grid Code Review Panel** shall evaluate each **Grid Code Modification Proposal** and determine whether the **Grid Code Modification Proposal** constitutes an amendment to the **Regulated Sections** of the Grid Code and, if a change to the areas set out in Table 1 of the GR.B annex which details the **Regulated Sections**, its expected impact on the objectives of **Assimilated Law** (Commission Regulation (EU) 2017/2195) (and in the event of disagreement **The Company's** view shall prevail).
- GR.18.10 Unless such **Grid Code Modification Proposal** has been determined to be an **Urgent Modification** or meets the **Fast Track Criteria**, the **Grid Code Review Panel** shall undertake an assessment of such **Grid Code Modification Proposal** against the **Prioritisation Criteria** to determine its **Prioritisation Category**, as compared with other **Pending Grid Code Modification Proposals**, and, taking into account the **Proposer's** opinion provided pursuant to Clause GR.15.3 (l).
- GR.19 PANEL PROCEEDINGS
- GR.19.1 (a) The **Code Administrator** and the **Grid Code Review Panel** shall together establish a timetable to apply for the **Grid Code Modification Proposal** process. That timetable

must comply with any direction(s) issued by the **Authority** setting and/or amending a timetable in relation to a **Grid Code Modification Proposal** that is in the respect of a **Significant Code Review**.

- (b) The **Grid Code Review Panel** shall establish the part of the timetable for the consideration by the **Grid Code Review Panel** and by a **Workgroup** (if any) which shall be no longer than six months unless in any case the particular circumstances of the **Grid Code Modification Proposal** (taking due account of the **Prioritisation Criteria**, whether the **Grid Code Modification Proposal** is an **Urgent Modification**, or, if it is not an **Urgent Modification** or doesn't meet the **Fast Track Criteria**, the **Prioritisation Category** of the **Grid Code Modification Proposal**) justify an extension of such timetable, and provided the **Authority**, after receiving notice, does not object, taking into account all those issues.
- (c) The **Code Administrator** shall establish the part of the timetable for the consultation to be undertaken by the **Code Administrator** under these **Governance Rules** and separately the preparation of a **Grid Code Modification Report** to the **Authority**. Where the particular circumstances of the **Grid Code Modification Proposal** (taking due account of the **Prioritisation Criteria**, and whether the **Grid Code Modification Proposal** is an **Urgent Modification**, or, if it is not an **Urgent Modification** or doesn't meet the **Fast Track Criteria**, the **Prioritisation Category** of the **Grid Code Modification Proposal**) justify an extension of such timescales and provided the **Authority**, after receiving notice, does not object, taking into account all those issues, the **Code Administrator** may revise such part of the timetable.
- (d) In setting such a timetable, the **Grid Code Review Panel** and the **Code Administrator** shall exercise their respective discretions such that, in respect of each **Grid Code Modification Proposal**, a **Grid Code Modification Report** may be submitted to the **Authority** as soon after the **Grid Code Modification Proposal** is made as is consistent with the proper evaluation of such **Grid Code Modification Proposal**, taking due account of the **Prioritisation Criteria**, and whether the **Grid Code Modification Proposal** is an **Urgent Modification**, or, if it is not an **Urgent Modification** or doesn't meet the **Fast Track Criteria**, the **Prioritisation Category** of the **Grid Code Modification Proposal**.
- (e) Unless **Grid Code Modification Proposals** have been determined to be **Urgent Modifications**, or meet the **Fast Track Criteria**, and having regard to the **Prioritisation Criteria** and the assessment provided by the **Proposer** in paragraph 15.3 (l), the **Grid Code Review Panel** may determine the **Prioritisation Category** of **Grid Code Modification Proposals**, as compared with other **Pending Grid Code Modification Proposals**, that also aren't **Urgent Modifications** or **Grid Code Fast Track Proposals** and may (subject to any objection from the **Authority** taking into account all those issues) adjust the **Prioritisation Category** of the relevant **Grid Code Modification Proposal** accordingly.

GR.19.2

In relation to each **Grid Code Modification Proposal**, the **Grid Code Review Panel** shall determine at any meeting of the **Grid Code Review Panel** whether to:

- (a) amalgamate the **Grid Code Modification Proposal** with any other **Grid Code Modification Proposal**;
- (b) invite the **Proposer** to further develop their **Grid Code Modification Proposal** before presenting it to a subsequent meeting of the **Grid Code Review Panel** or to withdraw their modification proposal;
- (c) establish a **Workgroup** of the **Grid Code Review Panel**, to consider the **Grid Code Modification Proposal**;
- (d) review the evaluation made pursuant to GR.18.4, taking into account any new information received; or
- (e) proceed directly to wider consultation (in which case the **Proposer's** right to vary their **Grid Code Modification Proposal** shall lapse).

- GR.19.3 The **Grid Code Review Panel** may decide to amalgamate a **Grid Code Modification Proposal** with one or more other **Grid Code Modification Proposals** where the subject-matter of such **Grid Code Modification Proposals** is sufficiently proximate to justify amalgamation on the grounds of efficiency and/or where such **Grid Code Modification Proposals** are logically dependent on each other. Such amalgamation may only occur with the consent of the **Proposers** of the respective **Grid Code Modification Proposals**. The **Authority** shall be entitled to direct that a **Grid Code Modification Proposal** is not amalgamated with one or more other **Grid Code Modification Proposals**.
- GR.19.4 Without prejudice to each **Proposer's** right to withdraw their **Grid Code Modification Proposal** prior to the amalgamation of their **Grid Code Modification Proposal** where **Grid Code Modification Proposals** are amalgamated pursuant to GR.19.3:
- (a) such **Grid Code Modification Proposals** shall be treated as a single **Grid Code Modification Proposal**;
 - (b) references in these **Governance Rules** to a **Grid Code Modification Proposal** shall include and apply to a group of two or more **Grid Code Modification Proposals** so amalgamated;
 - (c) the **Proposers** of each such **Grid Code Modification Proposal** shall cooperate in deciding which of them is to provide a representative for any **Workgroup** in respect of the amalgamated **Grid Code Modification Proposal** and, in default of agreement, the **Panel Chairperson** shall nominate one of the **Proposers** for that purpose; and
 - (d) where **Grid Code Modification Proposals** are amalgamated and the resultant amalgamated **Grid Code Modification Proposal** is not an **Urgent Modifications** or does not meet the **Fast Track Criteria**, the **Grid Code Review Panel** shall determine the amalgamated **Grid Code Modification Proposal** to have a single **Prioritisation Category**. When determining a **Prioritisation Category** for an amalgamated **Grid Code Modification Proposal**, the **Grid Code Review Panel** shall consider the **Prioritisation Categories**, and the relevant assessments undertaken in determining these **Prioritisation Categories**, accorded to the original **Grid Code Modification Proposals** that have been amalgamated.
- GR.19.5 In respect of any **Grid Code Modification Proposal** that the **Grid Code Review Panel** determines to proceed directly to wider consultation in accordance with GR.19.2, the **Grid Code Review Panel**, may at any time prior to the **Grid Code Review Panel Recommendation Vote** having taken place decide to establish a **Workgroup** of the **Grid Code Review Panel** and the provisions of GR.20 shall apply. In such case the **Grid Code Review Panel** shall be entitled to adjust the timetable referred to at GR.19.1(b) and the **Code Administrator** shall be entitled to adjust the timetable referred to at GR.19.1(c), provided that the **Authority**, after receiving notice, does not object.
- GR.19.6 Where the **Grid Code Review Panel** according to GR.19.2(b) invites the **Proposer** to further develop their **Grid Code Modification Proposal**, on presenting this to a subsequent meeting of the **Grid Code Review Panel**, the **Panel** will determine a way forward from the options in GR.19.2 (a), (c), (d) and (e) or invite the **Proposer** to withdraw their modification proposal.
- GR.19.7 Where the **Grid Code Review Panel** according to GR.19.2(b) or GR.19.6 invites the **Proposer** to further develop or withdraw their modification and this is declined, the **Panel** will determine a way forward from the options in GR.19.2 (a), (c), (d) or (e).
- GR.20 WORKGROUPS
- GR.20.1 If the **Grid Code Review Panel** has decided not to proceed directly to wider consultation (or where the provisions of GR.19.5, GR.23.10 or GR.25.5 apply), a **Workgroup** will be established by the **Grid Code Review Panel** to assist the **Grid Code Review Panel** in evaluating whether a **Grid Code Modification Proposal** better facilitates achieving the **Grid Code Objectives** and whether a **Workgroup Alternative Grid Code Modification(s)**

would, as compared with the **Grid Code Modification Proposal**, better facilitate achieving the **Grid Code Objectives** in relation to the issue or defect identified in the **Grid Code Modification Proposal**.

GR.20.2 A single **Workgroup** may be responsible for the evaluation of more than one **Grid Code Modification Proposal** at the same time, but need not be so responsible.

GR.20.3 A **Workgroup** shall comprise at least five (5) persons (who may be **Panel Members**) selected by the **Grid Code Review Panel** from those nominated by **Users**, the **Citizens Advice** or the **Citizens Advice Scotland** for their relevant experience and/or expertise in the areas forming the subject-matter of the **Grid Code Modification Proposal(s)** to be considered by such **Workgroup** (and the **Grid Code Review Panel** shall ensure, as far as possible, that an appropriate cross-section of representation, experience and expertise is represented on such **Workgroup**) provided that there shall always be at least one member representing **The Company** and if, and only if, the **Grid Code Review Panel** is of the view that a **Grid Code Modification Proposal** is likely to have an impact on the **STC**, the **Grid Code Review Panel** may invite the **STC** committee to appoint a representative to become a member of the **Workgroup**. A representative of the **Authority** may attend any meeting of a **Workgroup** as an observer and may speak at such meeting.

GR.20.4 The **Code Administrator** shall in consultation with the **Grid Code Review Panel** appoint the chairperson of the **Workgroup** who shall act impartially and as an independent chairperson.

GR.20.5 No **Workgroup** or meeting of a **Workgroup** will be considered quorate with less than five (5) persons, not including the **Code Administrator** representative or the chairperson of the **Workgroup**. Where insufficient persons are nominated to a **Workgroup** for it to be quorate, the **Code Administrator** will report this to the next meeting of the **Grid Code Review Panel**. The **Panel** may:

- (a) Request the **Code Administrator** to seek further nominations;
- (b) Reconsider their decision on how to progress the **Grid Code Modification Proposal** as allowed under GR.19.2; or
- (c) Request that those parties that have nominated themselves to a **Workgroup** which is less than quorate should proceed as a **Limited Membership Workgroup**, subject to the following additional checks and balances:
 - (i) A **Limited Membership Workgroup** shall always hold a **Workgroup Consultation** in addition to the mandatory **Code Administrator Consultation**.
 - (ii) Prior to the **Workgroup Consultation**, a draft of this shall be circulated to the **Grid Code Review Panel** for five (5) days or another timescale as agreed by the **Panel** for approval.
 - (iii) At the same time as the **Workgroup Consultation** is initiated, the **Code Administrator** shall again formally seek nominations and if quoracy is not established then again seek advice from the **Panel** on how to proceed from the options set out in GR.20.5.

Where a **Workgroup** remains non-quorate, and with the permission of the **Panel**, a **Limited Membership Workgroup** may continue following a **Workgroup Consultation** as if it were a standard **Workgroup**.

GR.20.6 A **Limited Membership Workgroup** may at any point be instructed by the **Authority** to either:

- (a) Stop work; or
- (b) To provide a report on progress to the next meeting of the **Grid Code Review Panel**.

The **Authority** may also at any point instruct the **Code Administrator** to seek further nominations for membership.

GR.20.7

Where a specific meeting of an otherwise quorate **Workgroup** is not quorate, or where member(s) of a **Limited Membership Workgroup** are unable to attend a meeting:

- (a) A member of the **Workgroup** unable to attend will be invited by the **Code Administrator** to send an alternate;
- (b) All members will be invited to participate by telephone, webinar or other equivalent if not able to attend in person;
- (c) A meeting may proceed as a **Workgroup** meeting as long as none of the members either present or absent raise an objection to this, however no voting can take place unless the **Code Administrator** has obtained enough votes to be quorate from members not in attendance or from all members of a **Limited Membership Workgroup**. This shall include where there has not been an opportunity to check with all **Workgroup** members to see if they have an objection (typically where a change of plans or circumstances has occurred too late to achieve this);
- (d) If any **Workgroup** member objects to the progressing of a **Workgroup** without them, they must communicate this to the **Code Administrator** at least 24 hours before the meeting indicating that they will not be present and do not wish the meeting to take place. The **Code Administrator** will then endeavour to rearrange the meeting to accommodate such a member's availability;
- (e) Where a **Workgroup** member is repeatedly unavailable, as guidance on 3 consecutive occasions, and does not give permission for the **Workgroup** to proceed without them as in (d), under GR.20.7 the **Grid Code Review Panel** may choose to replace or remove them.

GR.20.8

The **Grid Code Review Panel** may add further members or the **Workgroup** chairperson may add or vary members to a **Workgroup**.

GR.20.9

The **Grid Code Review Panel** may (but shall not be obliged to) replace or remove any member or observer of a **Workgroup** appointed pursuant to GR.20.3 at any time if such member is unwilling or unable for whatever reason to fulfil that function and/or is deliberately and persistently disrupting or frustrating the work of the **Workgroup**.

GR.20.10

The **Grid Code Review Panel** shall determine the terms of reference of each **Workgroup** and may change those terms of reference from time to time as it sees fit.

GR.20.11

The terms of reference of a **Workgroup** must include provision in respect of the following matters:

- (a) those areas of a **Workgroup's** powers or activities which require the prior approval of the **Grid Code Review Panel**;
- (b) the seeking of instructions, clarification or guidance from the **Grid Code Review Panel**, including on the suspension of a **Workgroup Alternative Grid Code Modification(s)** during a **Significant Code Review Phase**;
- (c) the timetable for the work to be done by the **Workgroup**, in accordance with the timetable established pursuant to GR.19.1 (save where GR.19.5 applies); and
- (d) the length of any **Workgroup Consultation**.

In addition, prior to the taking of any steps which would result in the undertaking of a significant amount of work (including the production of draft legal text to modify the **Grid Code** in order to give effect to a **Grid Code Modification Proposal** and/or **Workgroup Alternative Grid Code Modification(s)**, with the relevant terms of reference setting out what a significant amount of work would be in any given case), the **Workgroup** shall seek the views of the **Grid Code Review Panel** as to whether to proceed with such steps and, in giving its views, the **Grid Code Review Panel** may consult the **Authority** in respect thereof.

- GR.20.12 Subject to the provisions of this GR.20.12 and unless otherwise determined by the **Grid Code Review Panel**, the **Workgroup** shall develop and adopt its own internal working procedures for the conduct of its business and shall provide a copy of such procedures to the **Panel Secretary** in respect of each **Grid Code Modification Proposal** for which it is responsible. Unless the **Grid Code Review Panel** otherwise determines, meetings of each **Workgroup** shall be open to attendance by a representative of any **User**, (including any **Authorised Electricity Operator**; **The Company** or a **Materially Affected Party**), the **Citizens Advice**, the **Citizens Advice Scotland**, the **Authority** and any person invited by the chairperson, and the chairperson of a **Workgroup** may invite any such person to speak at such meetings, other than the **Authority** who may speak at any time as per GR.20.3.
- GR.20.13 After development by the **Workgroup** of the **Grid Code Modification Proposal**, and (if applicable) after development of any draft **Workgroup Alternative Grid Code Modification(s)**, the **Workgroup** may (subject to the provisions of GR.20.19) consult ("**Workgroup Consultation**") on the **Grid Code Modification Proposal** and, if applicable, on any draft **Workgroup Alternative Grid Code Modification(s)** with:
- (a) **Users**; and
 - (b) such other persons who may properly be considered to have an appropriate interest in it.
- GR.20.14 The **Workgroup Consultation** will be undertaken by issuing a **Workgroup Consultation** paper (and its provision in electronic form on the **Website** and in electronic mails to **Users** and such other persons, who have supplied relevant details, shall meet this requirement).
- Such **Workgroup Consultation** paper will include:
- (a) Issues which arose in the **Workgroup** discussions;
 - (b) Details of any draft **Workgroup Alternative Grid Code Modification(s)**;
 - (c) The date proposed by the **Code Administrator** as the **Proposed Implementation Date**.
- GR.20.15 **Workgroup Consultation** papers will be copied to **Core Industry Document Owners** and the secretary of the **STC** committee.
- GR.20.16 Any **Authorised Electricity Operator**; the **Citizens Advice** or the **Citizens Advice Scotland**, **The Company** or a **Materially Affected Party** may (subject to GR.20.20) raise a **Workgroup Consultation Alternative Request** in response to the **Workgroup Consultation**. Such **Workgroup Consultation Alternative Request** must include:
- (a) the information required by GR.15.3 (which shall be read and construed so that any references therein to "amendment proposal" or "proposal" shall be read as "request" and any reference to "Proposer" shall be read as "requester"); and
 - (b) sufficient detail to enable consideration of the request including details as to how the request better facilitates the **Grid Code Objectives** than the current version of the **Grid Code**, than the **Grid Code Modification Proposal** and than any draft **Workgroup Alternative Grid Code Modification(s)**.
- GR.20.17 The **Workgroup** shall consider and analyse any comments made or any **Workgroup Consultation Alternative Request** made by any **User** (including any **Authorised Electricity Operator**; **The Company** or a **Materially Affected Party**), the **Citizens Advice** and the **Citizens Advice Scotland** in response to the **Workgroup Consultation**.
- GR.20.18 If a majority of the members of the **Workgroup** or the chairperson of the **Workgroup** believe that the **Workgroup Consultation Alternative Request** may better facilitate the **Grid Code Objectives** than the **Grid Code Modification Proposal**, the **Workgroup** shall develop it as a **Workgroup Alternative Grid Code Modification(s)** or, where the chairperson of the **Workgroup** agrees, amalgamate it with one or more other draft **Workgroup Alternative Grid Code Modification(s)** or **Workgroup Consultation**

Alternative Request(s);

- GR.20.19 Unless the **Grid Code Review Panel** directs the **Workgroup** otherwise pursuant to GR.20.20, and provided that a **Workgroup Consultation** has been undertaken in respect of the **Grid Code Modification Proposal**, no further **Workgroup Consultation** will be required in respect of any **Workgroup Alternative Grid Code Modification(s)** developed in respect of such **Grid Code Modification Proposal**.
- GR.20.20 The **Grid Code Review Panel** may, at the request of the chairperson of the **Workgroup**, direct the **Workgroup** to undertake further **Workgroup Consultation(s)**. At the same time as such direction the **Grid Code Review Panel** shall adjust the timetable referred to at GR.19.1(b) and the **Code Administrator** shall be entitled to adjust the timetable referred to at GR.19.1 (c), provided that the **Authority**, after receiving notice, does not object. No **Workgroup Consultation Alternative Request** may be raised by any **User** (including any **Authorised Electricity Operator**; **The Company** or a **Materially Affected Party**), the **Citizens Advice** and the **Citizens Advice Scotland** during any second or subsequent **Workgroup Consultation**.
- GR.20. 21 The **Workgroup** shall finalise the **Workgroup Alternative Grid Code Modification(s)** for inclusion in the report to the **Grid Code Review Panel**.
- (a) Each **Workgroup** chairperson shall prepare a report to the **Grid Code Review Panel** responding to the matters detailed in the terms of reference in accordance with the timetable set out in the terms of reference.
 - (b) If a **Workgroup** is unable to reach agreement on any such matter, the report must reflect the views of the members of the **Workgroup**.
 - (c) The report will be circulated in draft form to **Workgroup** members and a period of not less than five (5) **Business Days** or if all **Workgroup** members agree three (3) **Business Days** given for comments thereon. Any unresolved comments made shall be reflected in the final report.
- GR.20.23 The chairperson or another member (nominated by the chairperson) of the **Workgroup** shall attend the next **Grid Code Review Panel** meeting following delivery of the report and may be invited to present the findings and/or answer the questions of **Panel Members** in respect thereof. Other members of the **Workgroup** may also attend such **Grid Code Review Panel** meeting.
- GR.20.24 At the meeting referred to in GR.20.23 the **Grid Code Review Panel** shall consider the **Workgroup's** report and shall determine whether to:-
- (a) refer the proposed **Grid Code Modification Proposal** back to the **Workgroup** for further analysis (in which case the **Grid Code Review Panel** shall determine the timetable and terms of reference to apply in relation to such further analysis); or
 - (b) proceed then to wider consultation as set out in GR.21; or
 - (c) decide on another suitable course of action.
- GR.20.25 Subject to GR.16.4 if, at any time during the assessment process carried out by the **Workgroup** pursuant to this GR.20, the **Workgroup** considers that a **Grid Code Modification Proposal** or any **Workgroup Alternative Grid Code Modification(s)** falls within the scope of a **Significant Code Review**, it shall consult on this as part of the **Workgroup Consultation** and include its reasoned assessment in the report to the **Grid Code Review Panel** prepared pursuant to GR.20.22. If the **Grid Code Review Panel** considers that the **Grid Code Modification Proposal** or the **Workgroup Alternative Grid Code Modification(s)** falls within the scope of a **Significant Code Review**, it shall consult with the **Authority**. If the **Authority** directs that the **Grid Code Modification Proposal** or **Workgroup Alternative Grid Code Modification(s)** falls within the scope of the **Significant Code Review**, the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** shall be suspended or withdrawn during the **Significant Code Review Phase**, in accordance with GR.16.3.

- GR.20.26 The **Proposer** may, at any time prior to the final evaluation by the **Workgroup** (in accordance with its terms of reference and working practices) of that **Grid Code Modification Proposal** against the **Grid Code Objectives**, vary their **Grid Code Modification Proposal** on notice (which may be given verbally) to the chairperson of the **Workgroup** provided that such varied **Grid Code Modification Proposal** shall address the same issue or defect originally identified by the **Proposer** in their **Grid Code Modification Proposal**.
- GR.20.27 The **Grid Code Review Panel** may (but shall not be obliged to) require a **Grid Code Modification Proposal** to be withdrawn if, in the **Panel's** opinion, the **Proposer** of that **Grid Code Modification Proposal** is deliberately and persistently disrupting or frustrating the work of the **Workgroup** and that **Grid Code Modification Proposal** shall be deemed to have been so withdrawn. In the event that a **Grid Code Modification Proposal** is so withdrawn, the provisions of GR.15.10 shall apply in respect of that **Grid Code Modification Proposal**.
- GR.21 THE CODE ADMINISTRATOR CONSULTATION
- GR.21.1 In respect of any **Grid Code Modification Proposal** where a **Workgroup** has been established GR.21.2 to GR.21.6 shall apply.
- GR.21.2 After consideration of any **Workgroup** report on the **Grid Code Modification Proposal** and if applicable any **Workgroup Alternative Grid Code Modification(s)** by the **Grid Code Review Panel** and a determination by the **Grid Code Review Panel** to proceed to wider consultation, the **Code Administrator** shall bring to the attention of and consult on the **Grid Code Modification Proposal** and if applicable any **Workgroup Alternative Grid Code Modification(s)** with:
- (i) **Users**; and
 - (ii) such other persons who may properly be considered to have an appropriate interest in it, including **Small Participants**, the **Citizens Advice** and the **Citizens Advice Scotland**.
- GR.21.3 The consultation will be undertaken by issuing a Consultation Paper (and its provision in electronic form on the **Website** and in electronic mails to **Users** and such other persons, who have supplied relevant details, shall meet this requirement). The consultation shall last for a minimum of one month unless it is deemed to be an **Urgent Modification**. For **Urgent Modifications** the **Grid Code Review Panel** shall confirm the proposed drafting for the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** do not include changes to **Regulated Sections**; provided there are no proposed changes to a **Regulated Section** then a shorter consultation duration can be applied if approved by the **Authority**, otherwise the standard one month consultation will apply.
- GR.21.4 The Consultation Paper will contain:
- (a) the proposed drafting for the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** (unless the **Authority** decides none is needed in the **Grid Code Modification Report** under GR.21.5) and will indicate the issues which arose in the **Workgroup** discussions, where there has been a **Workgroup** and will incorporate **The Company's** and the **Grid Code Review Panel's** initial views on the way forward; and
 - (b) the date proposed by the **Code Administrator** as the **Proposed Implementation Date** and, where the **Workgroup** terms of reference require and the dates proposed by the **Workgroup** are different from those proposed by the **Code Administrator**, those proposed by the **Workgroup**. In relation to a **Grid Code Modification Proposal** that meets the **Self-Governance Criteria**, the **Code Administrator** may not propose an implementation date earlier than the sixteenth (16) **Business Day** following the publication of the **Grid Code Review Panel's** decision to approve or reject the **Grid Code Modification Proposal**. Views will be invited on these dates.

- GR.21.5 Where the **Grid Code Review Panel** is of the view that the proposed text to amend the Grid Code for a **Grid Code Modification Proposal** or **Workgroup Alternative Grid Code Modification(s)** is not needed in the **Grid Code Modification Report**, the **Grid Code Review Panel** shall consult (giving its reasons as to why it is of this view) with the **Authority** as to whether the **Authority** would like the **Grid Code Modification Report** to include the proposed text to amend the **Grid Code**. If it does not, no text needs to be included. If it does, and no detailed text has yet been prepared, the **Code Administrator** shall prepare such text to modify the **Grid Code** in order to give effect to such **Grid Code Modification Proposal** or **Workgroup Alternative Grid Code Modification(s)** and shall seek the conclusions of the relevant **Workgroup** before consulting those identified in GR.21.2.
- GR.21.6 Consultation Papers will be copied to **Core Industry Document Owners** and the secretary of the **STC** committee.
- GR.21.7 In respect of any **Grid Code Modification Proposal** where a **Workgroup** has not been established GR.21.8 to GR.21.11 shall apply.
- GR.21.8 After determination by the **Grid Code Review Panel** to proceed to wider consultation, such consultation shall be conducted by the **Code Administrator** on the **Grid Code Modification Proposal** with:
- (i) **Users**; and
 - (ii) such other persons who may properly be considered to have an appropriate interest in it, including **Small Participants**, the **Citizens Advice** and the **Citizens Advice Scotland**.
- GR.21.9 The consultation will be undertaken by issuing a Consultation Paper (and its provision in electronic form on the **Website** and in electronic mails to **Users** and such other persons, who have supplied relevant details, shall meet this requirement). The consultation shall last for a minimum of one month unless it is deemed to be an **Urgent Modification**. For **Urgent Modifications** the **Grid Code Review Panel** shall confirm the proposed drafting for the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** do not include changes to **Regulated Sections**; provided there are no proposed changes to a **Regulated Section** then a shorter consultation duration can be applied if approved by the **Authority**, otherwise the standard one month consultation will apply.
- GR.21.10 The Consultation Paper will contain:
- (a) the proposed drafting for the **Grid Code Modification Proposal** (unless the **Authority** decides none is needed in the **Grid Code Modification Report** under GR.21.11) and will incorporate **The Company's** and the **Grid Code Review Panel's** initial views on the way forward; and
 - (b) the date proposed by the **Code Administrator** as the **Proposed Implementation Date**. Views will be invited on this date.
- GR.21.11 Where the **Grid Code Review Panel** is of the view that the proposed text to amend the **Grid Code** for a **Grid Code Modification Proposal** is not needed, the **Grid Code Review Panel** shall consult (giving its reasons as to why it is of this view) with the **Authority** as to whether the **Authority** would like the **Grid Code Modification Report** to include the proposed text to amend the **Grid Code**. If it does not, no text needs to be included. If it does, and no detailed text has yet been prepared, the **Code Administrator** shall prepare such text to modify the **Grid Code** in order to give effect to such **Grid Code Modification Proposal** and consult those identified in GR.21.2.
- GR.22 GRID CODE MODIFICATION REPORTS
- GR.22.1 Subject to the **Code Administrator's** consultation having been completed, the **Grid Code Review Panel** shall prepare and submit to the **Authority** a report (the "**Grid Code Modification Report**") in accordance with this GR.22 for each **Grid Code Modification Proposal** which is not withdrawn.

- GR.22.1A Where a **Grid Code Modification Proposal** or any **Workgroup Alternative Grid Code Modification** constitutes an amendment to the **Regulated Sections**, the **Panel** will consider any consultation responses received and any further work required to assess these as required under GR.18.9.
- GR.22.2 The matters to be included in a **Grid Code Modification Report** shall be the following (in respect of the **Grid Code Modification Proposal**):
- (a) A description of the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)**, including the details of, and the rationale for, any variations made (or, as the case may be, omitted) by the **Proposer** together with the views of the **Workgroup**;
 - (b) the **Panel Members' Recommendation**;
 - (c) a summary (agreed by the **Grid Code Review Panel**) of the views (including any recommendations) from **Panel Members** in the **Grid Code Review Panel Recommendation Vote** and the conclusions of the **Workgroup** (if there is one) in respect of the **Grid Code Modification Proposal** and of any **Workgroup Alternative Grid Code Modification(s)**;
 - (d) an analysis of whether (and, if so, to what extent) the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** would better facilitate achievement of the **Grid Code Objective(s)** with a detailed explanation of the **Grid Code Review Panel's** reasons for its assessment, including, where the impact is likely to be material, an assessment of the quantifiable impact of the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** on greenhouse gas emissions, to be conducted in accordance with such current guidance on the treatment of carbon costs and evaluation of the greenhouse gas emissions as may be issued by the **Authority** from time to time, and providing a detailed explanation of the **Grid Code Review Panel's** reasons for that assessment;
 - (e) an analysis of whether (and, if so, to what extent) any **Workgroup Alternative Grid Code Modification(s)** would better facilitate achievement of the **Grid Code Objective(s)** as compared with the **Grid Code Modification Proposal** and any other **Workgroup Alternative Grid Code Modification(s)** and the current version of the **Grid Code**, with a detailed explanation of the **Grid Code Review Panel's** reasons for its assessment, including, where the impact is likely to be material, an assessment of the quantifiable impact of the **Workgroup Alternative Grid Code Modification(s)** on greenhouse gas emissions, to be conducted in accordance with such current guidance on the treatment of carbon costs and evaluation of the greenhouse gas emissions as may be issued by the **Authority** from time to time, and providing a detailed explanation of the **Grid Code Review Panel's** reasons for that assessment;
 - (f) the **Proposed Implementation Date** taking into account the views put forward during the process described at GR.21.4 (b) such date to be determined by the **Grid Code Review Panel** in the event of any disparity between such views and those of the **Code Administrator**;
 - (g) an assessment of:
 - (i) the impact of the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** on the **Core Industry Documents** and the **STC**;
 - (ii) the changes which would be required to the **Core Industry Documents** and the **STC** in order to give effect to the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)**;
 - (iii) the mechanism and likely timescale for the making of the changes referred to in (ii);
 - (iv) the changes and/or developments which would be required to central computer systems and, if practicable, processes used in connection with the operation of arrangements established under the **Core Industry Documents** and the

- STC**;
- (v) the mechanism and likely timescale for the making of the changes referred to in (iv);
 - (vi) an estimate of the costs associated with making and delivering the changes referred to in (ii) and (iv), such costs are expected to relate to: for (ii) the costs of amending the **Core Industry Document(s)** and **STC** and for (iv) the costs of changes to computer systems and possibly processes which are established for the operation of the **Core Industry Documents** and the **STC**, together with an analysis and a summary of representations in relation to such matters, including any made by **Small Participants**, the **Citizens Advice** and the **Citizens Advice Scotland**;
 - (vii) unless such **Grid Code Modification Proposal** has been determined to be an **Urgent Modification** or meets the **Fast Track Criteria**, the **Grid Code Modification Proposal** against the **Prioritisation Criteria**, to determine its **Prioritisation Category**, in accordance with paragraph GR18.10;
- (h) to the extent such information is available to the **Code Administrator**, an assessment of the impact of the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** on **Users** in general (or classes of **Users** in general), including the changes which are likely to be required to their internal systems and processes and an estimate of the development, capital and operating costs associated with implementing the changes to the **Grid Code** and to **Core Industry Documents** and the **STC**;
- (i) copies of (and a summary of) all written representations or objections made by consultees during the consultation in respect of the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** and subsequently maintained;
- (j) a copy of any impact assessment prepared by **Core Industry Document Owners** and the **STC** committee and the views and comments of the **Code Administrator** in respect thereof;
- (k) whether or not, in the opinion of **The Company**, the **Grid Code Modification Proposal** (or any **Workgroup Alternative Grid Code Modification(s)**) should be made.
- (l) **The Company's** justification for including or not including the views resulting from the relevant consultation in the **Grid Code Modification Report**.
- (m) where a **Grid Code Modification Proposal** or any **Workgroup Alternative Grid Code Modification(s)** constitutes an amendment to the areas set out in table 1 of the GR.B annex which details the **Regulated Sections**, the expected impact on the objectives of **Assimilated Law** (Commission Regulation (EU) 2017/2195).

GR.22.3 A draft of the **Grid Code Modification Report** will be circulated by the **Code Administrator** to **Users**, **Panel Members** and such other persons who may properly be considered to have an appropriate interest in it (and its provision in electronic form on the **Website** and in electronic mails to **Users** and **Panel Members**, who must supply relevant details, shall meet this requirement) and a period of no less than five (5) **Business Days** given for comments to be made thereon. Any unresolved comments made shall be reflected in the final **Grid Code Modification Report**.

GR.22.4 A draft of the **Grid Code Modification Report** shall be tabled at a meeting of the **Grid Code Review Panel** prior to submission of that **Grid Code Modification Report** to the **Authority** as set in accordance with the timetable established pursuant to GR.19.1, and at which the **Panel** may consider any minor changes to the legal drafting, which may include any issues identified through the **Code Administrator** consultation, and:

- (i) if the change required is a typographical error the **Grid Code Review Panel** may instruct the **Code Administrator** to make the appropriate change and the **Panel Chairperson** will undertake the **Grid Code Review Panel Recommendation Vote**; or

- (ii) if the change required is not considered to be a typographical error then the **Grid Code Review Panel** may direct the **Workgroup** to review the change. If the **Workgroup** unanimously agree that the change is minor the **Grid Code Review Panel** may instruct the **Code Administrator** to make the appropriate change and the **Panel Chairperson** will undertake the **Grid Code Review Panel Recommendation Vote**, otherwise for changes that are not considered to be minor the **Code Administrator** shall issue the **Grid Code Modification Proposal** for further **Code Administrator** consultation, after which the **Panel Chairperson** will undertake the **Grid Code Review Panel Recommendation Vote**; or
- (iii) In the case of a modification that had been directed pursuant to GR.19.2(e) to proceed directly to wider consultation without the formation of a **Workgroup**, and if the change required is not considered to be a typographical error, then the **Grid Code Review Panel** may direct the **Code Administrator** in conjunction with the **Proposer** to review the change. If the **Grid Code Review Panel**, the **Code Administrator** and the **Proposer** agree that the change is minor the **Grid Code Review Panel** may instruct the **Code Administrator** to make the appropriate change and the **Panel Chairperson** will undertake the **Grid Code Review Panel Recommendation Vote**, otherwise for changes that are not considered to be minor the **Code Administrator** shall issue the **Grid Code Modification Proposal** for further **Code Administrator** consultation after which the **Panel Chairperson** will undertake the **Grid Code Review Panel Recommendation Vote**. In the case of a change that is not considered to be minor, the **Grid Code Review Panel** may also consider whether to establish a **Workgroup** of the **Grid Code Review Panel**, to further consider the **Grid Code Modification Proposal**, in which case the procedures set out within GR.20 will be followed as required; or
- (iv) if a change is not required after consideration, the **Panel Chairperson** will undertake the **Grid Code Review Panel Recommendation Vote**.

GR.22.5 A draft of the **Grid Code Modification Report** following the **Grid Code Review Panel Recommendation Vote** will be circulated by the **Code Administrator** to **Panel Members** (and in electronic mails to **Panel Members**, who must supply relevant details, shall meet this requirement) and a period of no less than five (5) **Business Days** given for comments to be made on whether the **Grid Code Modification Report** accurately reflects the views of the **Panel Members** as expressed at the **Grid Code Review Panel Recommendation Vote**. Any unresolved comments made shall be reflected in the final **Grid Code Modification Report**.

GR.22.6 Each **Grid Code Modification Report** shall be addressed and furnished to the **Authority** and none of the facts, opinions or statements contained in such may be relied upon by any other person.

GR.22.7 Subject to GR.22.9 to GR.22.12, in accordance with the **ESO Licence**, the **Authority** may approve the **Grid Code Modification Proposal** or a **Workgroup Alternative Grid Code Modification(s)** contained in the **Grid Code Modification Report** (which shall then be an "**Approved Modification**" until implemented).

GR.22.8 The **Code Administrator** shall copy (by electronic mail to those persons who have supplied relevant details to the **Code Administrator**) the **Grid Code Modification Report** to:

- (i) each **Panel Member**; and
- (ii) any person who may request a copy, and shall place a copy on the **Website**.

GR.22.9 Revised Fixed Proposed Implementation Date

GR.22.9.1 Where the **Proposed Implementation Date** included in a **Grid Code Modification Report** is a **Fixed Proposed Implementation Date** and the **Authority** considers that the **Fixed Proposed Implementation Date** is or may no longer be appropriate or might otherwise prevent the **Authority** from making such decision by reason of the effluxion of time the

Authority may direct the **Grid Code Review Panel** to recommend a revised **Proposed Implementation Date**.

GR.22.9.2

Such direction may:

- (a) specify that the revised **Proposed Implementation Date** shall not be prior to a specified date;
- (b) specify a reasonable period (taking into account a reasonable period for consultation) within which the **Grid Code Review Panel** shall be requested to submit its recommendation; and
- (c) provide such reasons as the **Authority** deems appropriate for such request (and in respect of those matters referred to in GR.22.9.2 (a) and (b) above).

GR.22.9.3

Before making a recommendation to the **Authority**, the **Grid Code Review Panel** will consult on the revised **Proposed Implementation Date**, and may in addition consult on any matters relating to the **Grid Code Modification Report** which in the **Grid Code Review Panel's** opinion have materially changed since the **Grid Code Modification Report** was submitted to the **Authority** and where it does so the **Grid Code Review Panel** shall report on such matters as part of its recommendation under **Grid Code GR.22.9.4**, with:

- (a) **Users**; and
- (b) such other persons who may properly be considered to have an appropriate interest in it. Such consultation will be undertaken in accordance with GR.21.3 and GR.21.6.

GR.22.9.4

Following the completion of the consultation held pursuant to GR.22.9.3 the **Grid Code Review Panel** shall report to the **Authority** with copies of all the consultation responses and recommending a **Revised Proposed Implementation Date**.

GR.22.9.5

The **Authority** shall notify the **Grid Code Review Panel** as to whether or not it intends to accept the **Revised Proposed Implementation Date** and where the **Authority** notifies the **Grid Code Review Panel** that it intends to accept the **Revised Proposed Implementation Date**, the **Revised Proposed Implementation Date** shall be deemed to be the **Proposed Implementation Date** as specified in the **Grid Code Modification Report**.

GR.22.10

Authority Approval

If:

- (a) the **Authority** has not given notice of its decision in respect of a **Grid Code Modification Report** within two (2) calendar months (in the case of an **Urgent Modification**), or four (4) calendar months (in the case of all other **Grid Code Modification Proposals**) from the date upon which the **Grid Code Modification Report** was submitted to it; or
- (b) the **Grid Code Review Panel** is of the reasonable opinion that the circumstances relating to the **Grid Code Modification Proposal** and/or **Workgroup Alternative Grid Code Modification** which is the subject of a **Grid Code Modification Report** have materially changed, the **Grid Code Review Panel** may request the **Panel Secretary** to write to the **Authority** requesting the **Authority** to give an indication of the likely date by which the **Authority's** decision on the **Grid Code Modification Proposal** will be made.

GR.22.11

If the **Authority** determines that the **Grid Code Modification Report** is such that the **Authority** cannot properly form an opinion on the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)**, or where the **Grid Code Modification Proposal** and/or any **Workgroup Alternative Grid Code Modification(s)** constitutes an amendment to the **Regulated Sections** of the code, where the **Authority**

requires an amendment to the **Grid Code Modification Proposal** and/or any **Workgroup Alternative Grid Code Modification(s)** in order to approve it, it may issue a direction to the **Grid Code Review Panel**:

- (a) specifying the additional steps (including drafting or amending existing drafting associated with the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)**, revision (including revision to the timetable), analysis or information that it requires in order to form such an opinion; and
- (b) requiring the **Grid Code Modification Report** to be revised and to be resubmitted.

GR.22.12

If a **Grid Code Modification Report** is to be revised and re-submitted in accordance with a direction issued pursuant to GR.22.11, it shall be re-submitted as soon after the **Authority's** direction as is appropriate (and in the case of an amendment to the areas set out in table 1 of the GR.B annex which details the **Regulated Sections** of the code within 2 months), taking into account the **Prioritisation Criteria**, and whether the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** are **Urgent Modifications**, or, if they are not **Urgent Modifications** or don't meet the **Fast Track Criteria**, the **Prioritisation Category** of the **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)**. The **Grid Code Review Panel** shall decide on the level of analysis and consultation required in order to comply with the **Authority's** direction and shall agree an appropriate timetable for meeting its obligations. Once the **Grid Code Modification Report** is revised, the **Grid Code Review Panel** shall carry out its **Grid Code Review Panel Recommendation Vote** again in respect of the revised **Grid Code Modification Report** and re-submit it to the **Authority** in compliance with GR.22.4 to GR.22.6.

GR.23

URGENT MODIFICATIONS

GR.23.1

If a **Relevant Party** recommends to the **Panel Secretary** that a proposal should be treated as an **Urgent Modification** in accordance with this GR.23, the **Panel Secretary** shall notify the **Panel Chairperson** who shall then, in accordance with GR.23.2 (a) to (e) inclusive, and notwithstanding anything in the contrary in these **Governance Rules**, endeavour to obtain the views of the **Grid Code Review Panel** as to the matters set out in GR.23.3. If for any reason the **Panel Chairperson** is unable to do that, the **Panel Secretary** shall attempt to do so (and the measures to be undertaken by the **Panel Chairperson** in the following paragraphs shall in such case be undertaken by the **Panel Secretary**).

GR.23.2

- (a) The **Panel Chairperson** shall determine the time by which, in their opinion, a decision of the **Grid Review Panel** is required in relation to such matters, having regard to the degree of urgency in all circumstances, and references in this GR.23.1 to the "time available" shall mean the time available, based on any such determination by the **Panel Chairperson**;
- (b) The **Panel Secretary** shall, at the request of the **Panel Chairperson**, convene a meeting or meetings (including meetings by telephone conference call, where appropriate) of the **Grid Code Review Panel** in such manner and upon such notice as the **Panel Chairperson** considers appropriate, and such that, where practicable within the time available, as many **Panel Members** as possible may attend;
- (c) Each **Panel Member** shall be deemed to have consented, for the purposes of GR.8.9, to the convening of such meeting or meetings in the manner and on the notice determined by the **Panel Chairperson**. GR.8.10 shall not apply to any such business.
- (d) Where:
 - (i) it becomes apparent, in seeking to convene a meeting of the **Grid Code Review Panel** within the time available, that quorum will not be present; or
 - (ii) it transpires that the meeting of the **Grid Code Review Panel** is not quorate and it is not possible to rearrange such meeting within the time available, the **Panel Chairperson** shall endeavour to contact each **Panel Member** individually in order to ascertain such Panel Member's vote, and (subject to GR.23.2 (e)) any matter to be decided shall be decided by a majority of those

Panel Members who so cast a vote. Where, for whatever reason no decision is reached, the **Panel Chairperson** shall proceed to consult with the **Authority** in accordance with GR.23.5;

- (e) Where the **Panel Chairperson** is unable to contact at least four **Panel Members** within the time available and where:
 - (i) It is only **The Company**, who has recommended that the proposal should be treated as an **Urgent Modification**, then those **Panel Members** contacted shall decide such matters, such decision may be a majority decision. Where in such cases no decision is made for whatever reason, the **Panel Chairperson** shall proceed to consult with the **Authority** in accordance with GR.23.5; or
 - (ii) any **User** (including any **Authorised Electricity Operator**; **The Company** or a **Materially Affected Party**), the **Citizens Advice** or the **Citizens Advice Scotland** has recommended that the proposal should be treated as an **Urgent Modification**, then the **Panel Chairperson** may decide the matter (in consultation with those **Panel Members** (if any) which they manage to contact) provided that the **Panel Chairperson** shall include details in the relevant **Grid Code Modification Report** of the steps which they took to contact other **Panel Members** first.

GR.23.3 The matters referred to in GR.23.1 are:

- (a) whether such proposal should be treated as an **Urgent Modification** in accordance with this GR.23 and
- (b) the procedure and timetable to be followed in respect of such **Urgent Modification**.

GR.23.4 The **Panel Chairperson** or, in their absence, the **Panel Secretary** shall forthwith provide the **Authority** with the recommendation (if any) ascertained in accordance with GR.23.2 (a) to (e) inclusive, of the **Grid Code Review Panel** as to the matters referred to in GR.23.2, and shall consult the **Authority** as to whether such **Grid Code Modification Proposal** is an **Urgent Modification** and, if so, as to the procedure and timetable which should apply in respect thereof.

GR.23.5 If the **Grid Code Review Panel** has been unable to make a recommendation in accordance with GR.23.2.(d) or GR.23.2(e) as to the matters referred to in GR.23.3 then the **Panel Chairperson** or, in their absence, the **Panel Secretary** may recommend whether they consider that such proposal should be treated as an **Urgent Modification** and shall forthwith consult the **Authority** as to whether such **Grid Code Modification Proposal** is an **Urgent Modification** and, if so, as to the procedure and timetable that should apply in respect thereof.

GR.23.6 The **Grid Code Review Panel** shall:

- (a) not treat any **Grid Code Modification Proposal** as an **Urgent Modification** except with the prior consent of the **Authority**;
- (b) comply with the procedure and timetable in respect of any **Urgent Modification** approved by the **Authority**; and
- (c) comply with any direction of the **Authority** issued in respect of any of the matters on which the **Authority** is consulted pursuant to GR.23.4 or GR.23.5.

GR.23.7 For the purposes of this GR.23.7, the procedure and timetable in respect of an **Urgent Modification** may (with the approval of the **Authority** pursuant to GR.23.4 or GR.23.5) deviate from all or part of the **Grid Code Modification Procedures** or follow any other procedure or timetable approved by the **Authority** except for the duration of the **Code Administrator** consultation for modifications relating to **Regulated Sections** which shall be for one month. Where the procedure and timetable approved by the **Authority** in respect of an **Urgent Modification** do not provide for the establishment (or designation) of a

Workgroup the **Proposer's** right to vary the **Grid Code Modification Proposal** pursuant to GR.15.10 and GR.20.26 shall lapse from the time and date of such approval.

- GR.23.8 The **Grid Code Modification Report** in respect of an **Urgent Modification** shall include:
- (a) a statement as to why the **Proposer** believes that such **Grid Code Modification Proposal** should be treated as an **Urgent Modification**;
 - (b) any statement provided by the **Authority** as to why the **Authority** believes that such **Grid Code Modification Proposal** should be treated as an **Urgent Modification**;
 - (c) any recommendation of the **Grid Code Review Panel** (or any recommendation of the **Panel Chairperson**) provided in accordance with GR.23 in respect of whether any **Grid Code Modification Proposal** should be treated as an **Urgent Modification**; and
 - (d) the extent to which the procedure followed deviated from the process for **Standard Modifications** (other than the procedures in this GR.23).
- GR.23.9 Each **Panel Member** shall take all reasonable steps to ensure that an **Urgent Modification** is considered, evaluated and (subject to the approval of the **Authority**) implemented as soon as reasonably practicable, having regard to the urgency of the matter and, for the avoidance of doubt, an **Urgent Modification** may (subject to the approval of the **Authority**) result in the **Grid Code** being amended on the day on which such proposal is submitted.
- GR.23.10 Where an **Urgent Modification** results in an amendment being made in accordance with GR.25, the **Grid Code Review Panel** may or (where it appears to the **Grid Code Review Panel** that there is a reasonable level of support for a review amongst **Users**) shall following such amendment, establish a **Workgroup** on terms specified by the **Grid Code Review Panel** to consider and report as to whether any alternative amendment could, as compared with such amendment better facilitate achieving the **Grid Code Objectives** in respect of the subject matter of that **Urgent Modification**.
- GR.23.11 For the avoidance of doubt, the **Grid Code Review Panel** shall not determine a **Prioritisation Category** for **Urgent Modifications** and accordingly no **Urgent Modification** shall have a **Prioritisation Category**.
- GR.24 SELF-GOVERNANCE
- GR.24.1 If the **Grid Code Review Panel**, having evaluated a **Grid Code Modification Proposal** against the **Self-Governance Criteria**, pursuant to GR.18.4, considers that the **Grid Code Modification Proposal** meets the **Self-Governance Criteria**, the **Grid Code Review Panel** shall submit to the **Authority** a **Self-Governance Statement** setting out its reasoning in reasonable detail.
- GR.24.2 The **Authority** may, at any time prior to the **Grid Code Review Panel's** determination made pursuant to GR.24.9, give written notice that it disagrees with the **Self-Governance Statement** and may direct that the **Grid Code Modification Proposal** proceeds through the process for **Standard Modifications** set out in GR.19, GR.20, GR.21 and GR.22.
- GR.24.3 Subject to GR.24.2, after submitting a **Self-Governance Statement**, the **Grid Code Review Panel** shall follow the procedure set out in GR.19, GR.20, GR.21 and GR.22.
- GR.24.4 The **Authority** may issue a direction to the **Grid Code Review Panel** in relation to a **Modification** to follow the procedure set out for **Modifications** that meet the **Self-Governance Criteria**, notwithstanding that no **Self-Governance Statement** has been submitted or a **Self-Governance Statement** has been retracted.
- GR.24.5 Subject to the **Code Administrator's** consultation having been completed pursuant to GR.21, the **Grid Code Review Panel** shall prepare a report (the "**Grid Code Modification Self-Governance Report**").

- GR.24.6 The matters to be included in a **Grid Code Modification Self-Governance Report** shall be the following (in respect of the **Grid Code Modification Proposal**):
- (a) details of its analysis of the **Grid Code Modification Proposal** against the **Self-Governance Criteria**;
 - (b) copies of all consultation responses received;
 - (c) the date on which the **Grid Code Review Panel Self-Governance Vote** shall take place, which shall not be earlier than seven (7) days from the date on which the **Grid Code Modification Self-Governance Report** is furnished to the **Authority** in accordance with GR.24.8; and
 - (d) such other information that is considered relevant by the **Grid Code Review Panel**.
- GR.24.7 A draft of the **Grid Code Modification Self-Governance Report** will be circulated by the **Code Administrator** to **Users** and **Panel Members** (and its provision in electronic form on the **Website** and in electronic mails to **Users** and **Panel Members**, who must supply relevant details, shall meet this requirement) and a period of no less than five (5) **Business Days** given for comments to be made thereon. Any unresolved comments made shall be reflected in the final **Grid Code Modification Self-Governance Report**.
- GR.24.8 Each **Grid Code Modification Self-Governance Report** shall be addressed and furnished to the **Authority** and none of the facts, opinions or statements contained in such **Grid Code Modification Self-Governance Report** may be relied upon by any other person.
- GR.24.9 Subject to GR.24.11, if the **Authority** does not give written notice that its decision is required pursuant to GR.24.2, or if the **Authority** determines that the **Self-Governance Criteria** are satisfied in accordance with GR.24.4, then the **Grid Code Modification Self-Governance Report** shall be tabled at the **Panel Meeting** following submission of that **Grid Code Modification Self-Governance Report** to the **Authority** at which the **Panel Chairperson** will undertake the **Grid Code Review Panel Self-Governance Vote** and the **Code Administrator** shall give notice of the outcome of such vote to the **Authority** as soon as possible thereafter.
- GR.24.10 If the **Grid Code Review Panel** vote to approve the **Grid Code Modification Proposal** pursuant to GR.24.9 (which shall then be an “**Approved Grid Code Self-Governance Proposal**”) until implemented).
- GR.24.11 The **Grid Code Review Panel** may at any time prior to the **Grid Code Review Panel’s** determination retract a **Self-Governance Statement** subject to GR.24.4, or if the **Authority** notifies the **Grid Code Review Panel** that it has determined that a **Grid Code Modification Proposal** does not meet the **Self-Governance Criteria** the **Grid Code Review Panel** shall treat the **Grid Code Modification Proposal** as a **Standard Modification** and shall comply with GR.22, using the **Grid Code Modification Self-Governance Report** as a basis for its **Grid Code Modification Report**.
- GR.24.12 The **Code Administrator** shall make available on the **Website** and copy (by electronic mail to those persons who have supplied relevant details to the **Code Administrator**) the **Grid Code Modification Self-Governance Report** prepared in accordance with GR.24 to:
- (i) each **Panel Member**; and
 - (ii) any person who may request a copy, and shall place a copy on the **Website**.
- GR.24.13 A **User** (including any **Authorised Electricity Operator**; **The Company** or a **Materially Affected Party**), the **Citizens Advice** or the **Citizens Advice Scotland** may appeal to the **Authority** the approval or rejection by the **Grid Code Review Panel** of a **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** in accordance with GR.24.9, provided that the **Panel Secretary** is also notified, and the appeal has been made up to and including fifteen (15) **Business Days** after the **Grid Code Review Panel Self-Governance Vote** has been undertaken pursuant to GR.24.9. If such

an appeal is made, implementation of the **Grid Code Modification Proposal** shall be suspended pending the outcome. The appealing **User** (including any **Authorised Electricity Operator; The Company** or a **Materially Affected Party**), the **Citizens Advice** or the **Citizens Advice Scotland** must notify the **Panel Secretary** of the appeal when the appeal is made.

- GR.24.14 The **Authority** shall consider whether the appeal satisfies the following criteria:
- (a) The appealing party is, or is likely to be, unfairly prejudiced by the implementation or non-implementation of that **Grid Code Modification Proposal** or **Workgroup Alternative Grid Code Modification(s)**; or
 - (b) The appeal is on the grounds that, in the case of implementation, the **Grid Code Modification Proposal** or **Workgroup Alternative**; or
 - (c) **Grid Code Modification(s)** may not better facilitate the achievement of at least one of the **Grid Code Objectives**; or
 - (d) The appeal is on the grounds that, in the case of non-implementation, the **Grid Code Modification Proposal** or **Workgroup Alternative Grid Code Modification(s)** may better facilitate the achievement of at least one of the **Grid Code Objectives**; and
 - (e) It is not brought for reasons that are trivial, vexatious or have no reasonable prospect of success and if the **Authority** considers that the criteria are not satisfied, it shall dismiss the appeal.
- GR.24.15 Following any appeal to the **Authority**, a **Grid Code Modification Proposal** or **Workgroup Alternative Grid Code Modification(s)** shall be treated in accordance with any decision and/or direction of the **Authority** following that appeal.
- GR.24.16 If the **Authority** quashes the **Grid Code Review Panel's** determination in respect of a **Grid Code Modification Proposal** or **Workgroup Alternative Grid Code Modification(s)** made in accordance with GR.24.9 and takes the decision on the relevant **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** itself, following an appeal to the **Authority**, the **Grid Code Review Panel's** determination of that **Grid Code Modification Proposal** and any **Workgroup Alternative Grid Code Modification(s)** contained in the relevant **Grid Code Modification Self Governance Report** shall be treated as a **Grid Code Modification Report** submitted to the **Authority** pursuant to GR.22.6 (for the avoidance of doubt, subject to GR.22.8 to GR.22.12) and the **Grid Code Review Panel's** determination shall be treated as its recommendation pursuant to GR.22.4.
- GR.24.17 If the **Authority** quashes the **Grid Code Review Panel's** determination in respect of a **Grid Code Modification Proposal** or **Workgroup Alternative Grid Code Modification(s)** made in accordance with GR.24.9, the **Authority** may, following an appeal to the **Authority**, refer the **Grid Code Modification Proposal** back to the **Grid Code Review Panel** for further re-consideration and a further **Grid Code Review Panel Self-Governance Vote**.
- GR.24.18 Following an appeal to the **Authority**, the **Authority** may confirm the **Grid Code Review Panel's** determination in respect of a **Grid Code Modification Proposal** or **Workgroup Alternative Grid Code Modification(s)** made in accordance with GR.24.9.
- GR.25 IMPLEMENTATION
- GR.25.1 The **Grid Code** shall be modified either in accordance with the terms of the direction by the **Authority** relating to, or other approval by the **Authority** of, the **Grid Code Modification Proposal** or any **Workgroup Alternative Grid Code Modification(s)** contained in the relevant **Grid Code Modification Report**, or in respect of **Grid Code Modification Proposals** or any **Workgroup Alternative Grid Code Modification(s)** that are subject to the determination of the **Grid Code Review Panel** pursuant to GR.24.9, in accordance with

the relevant **Grid Code Modification Self-Governance Report** subject to the appeal procedures set out in GR.24.13 to GR.24.18.

GR.25.2 The **Code Administrator** shall forthwith notify (by publication on the **Website** and, where relevant details are supplied by electronic mail):

- (a) each **User**;
- (b) each **Panel Member**;
- (c) the **Authority**;
- (d) each **Core Industry Document Owner**;
- (e) the secretary of the **STC** committee;
- (f) each **Materially Affected Party**; and
- (g) the **Citizens Advice** and the **Citizens Advice Scotland** of the change so made and the effective date of the change.

GR.25.3 A modification of the **Grid Code** shall take effect from the time and date specified in the direction, or other approval, from the **Authority** referred to in GR.25.1 or, in the absence of any such time and date in the direction or approval, from 00:00 hours on the day falling ten (10) **Business Days** after the date of such direction, or other approval, from the **Authority**. A modification of the **Grid Code** pursuant to GR.24.9 shall take effect, subject to the appeal procedures set out in GR.24.13 to GR.24.18, from the time and date specified by the **Code Administrator** in its notice given pursuant to GR.25.2, which shall be given after the expiry of the fifteen (15) **Business Day** period set out in GR.24.13 to allow for appeals, or where an appeal is raised in accordance with GR.24.13, on conclusion of the appeal in accordance with GR.24.15 or GR.24.18 but where conclusion of the appeal is earlier than the fifteen (15) **Business Day** period set out in GR.24.13, notice shall be given after the expiry of this period. A modification of the **Grid Code** pursuant to GR.26 shall take effect from the date specified in the **Grid Code Modification Fast Track Report**.

GR.25.4 A modification made pursuant to and in accordance with GR.25.1 shall not be impaired or invalidated in any way by any inadvertent failure to comply with or give effect to this Section.

GR.25.5 If a modification is made to the Grid Code in accordance with the **ESO Licence** but other than pursuant to the other **Grid Code Modification Procedures** in these **Governance Rules**, the **Grid Code Review Panel** shall determine whether or not to submit the modification for review by a **Workgroup** established on terms specified by the **Grid Code Review Panel** to consider and report as to whether any alternative modification could, as compared with such modification better facilitate achieving the **Grid Code Objectives** in respect of the subject matter of the original modification. Where such a **Workgroup** is established the provisions of GR.20 shall apply as if such a modification were a **Grid Code Modification Proposal**.

Transitional Issues

GR.25.6 Notwithstanding the provisions of GR.25.3, Modification GC0132 changes the **Grid Code** process for **Grid Code Modification Proposals** and therefore may affect other **Grid Code Modification Proposals** which have not yet become **Approved Modifications**. Consequently, this GR.25.6 deals with issues arising out of the implementation of **Modification** GC0132. In particular this deals with which version of the **Grid Code** process for **Grid Code Modification Proposals** will apply to **Grid Code Modification Proposal(s)** which were already instigated prior to the implementation of **Modification** GC0132.

Any **Grid Code Modification Proposal** in respect of which a **Grid Code Modification Report** has been sent to the **Authority** prior to the date and time of implementation of **Modification** GC0132 is known as an "**Old Modification**". Any **Grid Code Modification Proposal** in respect of which a **Grid Code Modification Report** has not been sent to the **Authority** as at the date and time of implementation of **Modification** GC0132 is known as a "**New Modification**". The **Grid Code** provisions which will apply to any **Old Modification(s)** are the provisions of the **Grid Code** in force immediately prior to the implementation of GC0132. The provisions of the **Grid Code** which will apply to any **New Modifications** are the provisions of the **Grid Code** in force and as amended from time to time.

- GR.25.7 Notwithstanding the provisions of GR.25.3, **Modification GC0131** changes the **Grid Code** process for **Grid Code Modification Proposals** and therefore may affect other **Grid Code Modification Proposals** which have not yet become **Approved Modifications**. Consequently, this GR.25.7 deals with issues arising out of the implementation of **Modification GC0131**. In particular this deals with which version of the **Grid Code** process for **Grid Code Modification Proposals** will apply to **Grid Code Modification Proposal(s)** which were already instigated prior to the implementation of **Modification GC0131**.
- Any **Grid Code Modification Proposal** in respect of which a **Grid Code Modification Report** has been sent to the **Authority** prior to the date and time of implementation of **Modification GC0131** is known as an “**Old GC0131 Modification**”. Any **Grid Code Modification Proposal** in respect of which a **Grid Code Modification Report** has not been sent to the **Authority** as at the date and time of implementation of **Modification GC0131** is known as a “**New GC0131 Modification**”. The **Grid Code** provisions which will apply to any **Old GC0131 Modification(s)** are the provisions of the **Grid Code** in force immediately prior to the implementation of **GC0131**. The provisions of the **Grid Code** which will apply to any **New GC0131 Modifications** are the provisions of the **Grid Code** in force from time to time.
- GR.26 FAST TRACK
- GR.26.1 Where a **Proposer** believes that a modification to the **Grid Code** which meets the **Fast Track Criteria** is required, a **Grid Code Fast Track Proposal** may be raised. In such case the **Proposer** is only required to provide the details listed in GR.15.3 (a), (b), (c), (d), (e) and (k).
- GR.26.2 Provided that the **Panel Secretary** receives any modification to the **Grid Code** which the **Proposer** considers to be a **Grid Code Fast Track Proposal**, not less than ten (10) **Business Days** (or such shorter period as the **Panel Secretary** may agree, provided that the **Panel Secretary** shall not agree any period shorter than five (5) **Business Days**) prior to the next **Grid Code Review Panel** meeting, the **Panel Secretary** shall place the **Grid Code Fast Track Proposal** on the agenda of the next **Grid Code Review Panel** meeting, and otherwise, shall place it on the agenda of the next succeeding **Grid Code Review Panel** meeting.
- GR.26.3 To facilitate the discussion at the **Grid Code Review Panel** meeting, the **Code Administrator** will circulate a draft of the **Grid Code Modification Fast Track Report** to **Users**, the **Authority** and **Panel Members** (and its provision in electronic form on the **Website** and in electronic mails to **Users**, the **Authority** and **Panel Members**, who must supply relevant details, shall meet this requirement) for comment not less than five (5) **Business Days** ahead of the **Grid Code Review Panel** meeting which will consider whether or not the **Fast Track Criteria** are met and whether or not to approve the **Grid Code Fast Track Proposal**.
- GR.26.4 It is for the **Grid Code Review Panel** to decide whether or not a **Grid Code Fast Track Proposal** meets the **Fast Track Criteria** and if it does, to determine whether or not to approve the **Grid Code Fast Track Proposal**.
- GR.26.5 The **Grid Code Review Panel's** decision that a **Grid Code Fast Track Proposal** meets the **Fast Track Criteria** pursuant to GR.26.4 must be unanimous.
- GR.26.6 The **Grid Code Review Panel's** decision to approve the **Grid Code Fast Track Proposal** pursuant to GR.26.4 must be unanimous.
- GR.26.7 If the **Grid Code Review Panel** vote unanimously that the **Grid Code Fast Track Proposal** meets the **Fast Track Criteria** and to approve the **Grid Code Fast Track Proposal** (which shall then be an “**Approved Fast Track Proposal**”) until implemented, or until an objection is received pursuant to GR.26.12), then subject to the objection procedures set out in GR.26.12 the **Grid Code Fast Track Proposal** will be implemented by **The Company** without the **Authority's** approval. If the **Grid Code Review Panel** do not unanimously agree that the **Grid Code Modification Proposal** meets the **Fast Track Criteria** and/or do not unanimously agree that the **Grid Code Fast Track Proposal** should

be made, then the **Panel Secretary** shall, in accordance with GR.15.4(a) notify the **Proposer** that additional information is required if the **Proposer** wishes the **Grid Code Modification Proposal** to continue.

- GR.26.8 Provided that the **Grid Code Review Panel** have unanimously agreed to treat a **Grid Code Modification Proposal** as a **Grid Code Fast Track Proposal** and unanimously approved that **Grid Code Fast Track Proposal**, the **Grid Code Review Panel** shall prepare and approve the **Grid Code Modification Fast Track Report** for issue in accordance with GR.26.11.
- GR.26.9 The matters to be included in a **Grid Code Modification Fast Track Report** shall be the following (in respect of the **Grid Code Fast Track Proposal**):
- (a) a description of the proposed modification and of its nature and purpose;
 - (b) details of the changes required to the Grid Code, including the proposed legal text to modify the Grid Code to implement the **Grid Code Fast Track Proposal**;
 - (c) details of the votes required pursuant to GR.26.5 and GR.26.6;
 - (d) the intended implementation date, from which the **Approved Fast Track Proposal** will take effect, which shall be no sooner than fifteen (15) **Business Days** after the date of notification of the **Grid Code Review Panel's** decision to approve; and
 - (e) details of how to object to the **Approved Fast Track Proposal** being made
- GR.26.10 Upon approval by the **Grid Code Review Panel** of the **Grid Code Modification Fast Track Report**, the **Code Administrator** will issue the report in accordance with GR.26.11.
- GR.26.11 The **Code Administrator** shall copy (by electronic mail to those persons who have supplied relevant details to the **Code Administrator**) the **Grid Code Modification Fast Track Report** prepared in accordance with GR.26 to:
- (i) each **Panel Member**;
 - (ii) the **Authority**; and
 - (iii) any person who may request a copy, and shall place a copy on the **Website**.
- GR.26.12 A **User**, any **Authorised Electricity Operator**; **The Company** or a **Materially Affected Party**, the **Citizens Advice**, the **Citizens Advice Scotland** or the **Authority** may object to the **Approved Fast Track Proposal** being implemented, and shall include with such objection the reasons for the objection. Any such objection must be made in writing (including by email) and be clearly stated to be an objection to the **Approved Fast Track Proposal** in accordance with this GR.26 of the Grid Code and be notified to the **Panel Secretary** by the date up to and including fifteen (15) **Business Days** after notification of the **Grid Code Review Panel's** decision to approve the **Grid Code Fast Track Proposal**. If such an objection is made the **Approved Fast Track Proposal** shall not be implemented. The **Panel Secretary** will notify each **Panel Member** and the **Authority** of the objection. The **Panel Secretary** shall notify the **Proposer**, in accordance with GR.15.4A that additional information is required if the **Proposer** wishes the **Grid Code Modification Proposal** to continue.
- GR.26.13 For the avoidance of doubt, the **Grid Code Review Panel** shall not determine a **Prioritisation Category** for **Grid Code Modification Proposals** that meet the **Fast Track Criteria** and accordingly no **Grid Code Modification Proposal** that meets the **Fast Track Criteria** shall have a **Prioritisation Category**.
- GR.27 REVIEW OF PRIORITISATION CATEGORY OF MODIFICATION PROPOSALS
- GR.27.1 The **Grid Code Review Panel** shall review the **Prioritisation Category** of **Modification Proposals** on a bi-annual basis and adjust the relevant modification timetable for each **Modification Proposal** accordingly.

ANNEX GR.A - ELECTION OF USERS' PANEL MEMBERS

Grid Code Review Panel Election Process

1. The election process has two main elements: nomination and selection.
2. The process will be used to appoint **Panel Members** in the category of **Supplier, Generator, Offshore Transmission Owner** and **Onshore Transmission Owner**.
3. The **Code Administrator** will publish the Election timetable by [September] in the year preceding the start of each term of office of **Panel Members**.
4. Each step of the process set out below will be carried out in line with the published timetable.
5. The **Code Administrator** will establish an Electoral Roll from representatives of parties listed on CUSC Schedule 1 or designated by the **Authority** as a **Materially Affected Party** as at 31st August in the year preceding the start of each term of office of **Panel Members**.
6. The **Code Administrator** will keep the Electoral Roll up to date.

Nomination Process

7. Each party on the Electoral Roll may nominate a candidate to stand for election for the **Grid Code Review Panel**.
8. Parties may only nominate a candidate for their own category; a **Supplier** may nominate a candidate for the **Supplier Panel Member** seat and a **Generator** may nominate a candidate for the **Generator Panel Member** seats. If a party able to nominate a candidate is both a **Supplier** and a **Generator**, they may nominate a candidate in each category.
9. The nominating party must complete the nomination form which will be made available by the **Code Administrator** and return it to the **Code Administrator** by the stated deadline.
10. The **Code Administrator** will draw up a list of candidates for each category of election.
11. Where there are fewer candidates than seats available or the same number of candidates as seats available, no election will be required and the nominated candidate(s) will be elected. The **Code Administrator** will publish a list of the successful candidates on the Grid Code website and circulate the results by email to the Grid Code circulation list.

Selection Process

12. The **Code Administrator** will send a numbered voting paper to each party on the electoral roll for each of the elections in which they are eligible to vote. The voting paper will contain a list of candidates for each election and will be sent by email.
13. Each eligible party may vote for one [1] candidate for each of the **Supplier, Offshore Transmission Owner** and **Onshore Transmission Owner** seats and four [4] candidates for the **Generator** seats.
14. **Panel Members** will be elected using the First Past the Post method.
15. In the event of two or more candidates receiving the same number of votes, the **Code Administrator** will draw lots to decide who is elected.
16. The **Code Administrator** will publish the results of the election on the Grid Code website and circulate the results by email to the Grid Code circulation list.
17. The **Code Administrator** will send an Election Report to Ofgem after the election is complete.

ANNEX GR.B Regulated Sections

The Grid Code sections identified in Tables 1 and 2 are considered to be **Regulated Sections**.

Table 1 - Mapping of Electricity Balancing Regulation Article 18 Terms and Conditions for Balancing Service Providers and Balancing Responsible Parties to the Grid Code

<i>Commission Regulation (EU) 2017/2195 Reference (Assimilated Law)</i>	<i>Description</i>	<i>Grid Code Reference</i>
18.2	The terms and conditions pursuant to paragraph 1 shall also include the rules for suspension and restoration of market activities pursuant to Article 36 of Regulation (EU) 2017/2196 and rules for settlement in case of market suspension pursuant to Article 39 of Regulation (EU) 2017/2196 once approved in accordance with Article 4 of Regulation (EU) 2017/2196.	OC9.4
18.4.a	define reasonable and justified requirements for the provisions of balancing services;	BC1, BC2, BC3 & BC4
18.4.b	allow the aggregation of demand facilities, energy storage facilities and power generating facilities in a scheduling area to offer balancing services subject to conditions referred to in paragraph 5 (c);	DRSC 4.2, BC1.4
18.5.a	the rules for the qualification process to become a balancing service provider pursuant to Article 16;	BC5, BC4.4.2
18.5.c	the rules and conditions for the aggregation of demand facilities, energy storage facilities and power generating facilities in a scheduling area to become a balancing service provider;	BC1.4 and BC1.A.10
18.5.d	the requirements on data and information to be delivered to the connecting TSO and, where relevant, to the reserve connecting DSO during the prequalification process and operation of the balancing market;	DRC, BC5 BC1.4,
18.5. f	the requirements on data and information to be delivered to the connecting TSO and, where relevant, to the reserve connecting DSO to evaluate the provisions of balancing services pursuant to Article 154(1), Article 154(8), Article 158(1)(e), Article 158(4)(b), Article 161(1)(f) and Article 161(4)(b) of Regulation (EU) 2017/1485;	BC1.4, BC1.A.10,
18.5. g	the definition of a location for each standard product and each specific product taking into account paragraph 5 (c);	BC1.4

18.6. d	the requirements on data and information to be delivered to the connecting TSO to calculate the imbalances;	BC1.4.2,3,4, BC1 Appendix 1 BC2.5.1,
18.6. e	the rules for balance responsible parties to change their schedules prior to and after the intraday energy gate closure time pursuant to paragraphs 3 and 4 of Article 17;	BC1.4.3,4,

Table 2 - Mapping of Network Code on Emergency and Restoration (NCER) Article 4(4) Terms and Conditions for System Defence and System Restoration Service Providers to the Grid Code

Commission Regulation (EU) 2017/2196 Reference (Assimilated Law)	Description	Grid Code Reference
4(4)(a)	The terms and conditions to act as defence service provider and as restoration service provider shall be established either in the national legal framework or on a contractual basis. If established on a contractual basis, each TSO shall develop by 18 December 2018 a proposal for the relevant terms and conditions, which shall define at least: (a) the characteristics of the service to be provided	Restoration services: Re-energisation procedure- OC.9.2.6, OC.9.4.7 Re-synchronisation procedure- OC9.4.7, BC2.9.2.2(iii)) Frequency deviation management -BC3.4, BC.3.5, BC3.6, BC3.7 BC2.5.4
		Defence services: Frequency deviation management- BC3.4, BC.3.5, BC3.6, BC3.7 BC2.5.4, Fast Start- CC/ECC.6.3.14 Limited Frequency Sensitive Mode- ECC.6.3.7.1, ECC.6.3.7.2, BC3.7.2 Low Frequency Demand disconnection- CC/ECC.6.4.3, CC/ECC.A.5, OC6.5, OC6.6 Over Frequency control- ECC.6.3.7.1, ECC.6.3.7.3, BC.3.7.1, BC.3.7.2 Frequency deviation management- BC3.4, BC.3.5, BC3.6, BC3.7, CC/ECC.6.3.3, CC.6.3.7(a), ECC.6.3.7.3, CC.6.3.6(a)/ECC.6.3.6, CC/ECC.6.3.9, DRSC 5.1, DRSC 6.1, DRSC 7.1, BC.1.4.2, BC1. A.1.1, BC2.6.1, BC2.7, BC.2.9, OC7.4.5, OC6.7, OC6.5, OC.10, Voltage deviation management- CC/ECC.6.1.4, CC/ECC.6.3.2, CC.6.3.6(b), ECC.6.3.6.3, ECC.6.4.5, BC2.8, BC2. A.2, DRSC.5, Power flow management- CC.6.3.7(a), ECC.6.3.7.3.1, CC/ECC.6.3.9, BC.1.4.2, BC1.5.5, BC1.7, BC1. A.1.1, BC.2.6.1, BC2.7, BC2.9, OC7.4.5, OC6.7, OC10, DRSC 5.1, Assistance for active power- BC2.7, BC2.9. OC9.4, OC9.5, OC7.4.8 Manual Demand disconnection- OC6.5, OC6.7, OC6.9, BC2.9

4(4) (b)	(b) the possibility of and conditions for aggregation; and	DRSC1, DRSC2, DRSC4 ECC/CC 6.5 BC1.4 BC1. A.10 BC
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< END OF GOVERNANCE RULES >

REVISIONS

(R)

(This section does not form part of the Grid Code)

- R.1 **The ESO Licence** sets out the way in which changes to the Grid Code are to be made and reference is also made to **The Company's** obligations under the General Conditions.
- R.2 All pages re-issued have the revision number on the lower left hand corner of the page and date of the revision on the lower right hand corner of the page.
- R.3 The Grid Code was introduced in March 1990 and the first issue was revised 31 times. In March 2001 the New Electricity Trading Arrangements were introduced and Issue 2 of the Grid Code was introduced which was revised 16 times. At British Electricity Trading and Transmission Arrangements (BETTA) Go-Active Issue 3 of the Grid Code was introduced and subsequently revised 35 times. At Offshore Go-active Issue 4 of the Grid Code was introduced and has been revised 13 times since its original publication. Issue 5 of the Grid Code was published to accommodate the changes made by Grid Code Modification A/10 which has incorporated the **Generator** compliance process into the Grid Code, which was revised 47 times. Issue 6 was published to incorporate all the non-material amendments as a result of modification GC0136.
- R.4 This Revisions section provides a summary of the sections of the Grid Code changed by each revision to Issue 6.
- R.5 All enquiries in relation to revisions to the Grid Code, including revisions to Issues 1, 2, 3, 4 and 5 should be addressed to the Grid Code development team at the following email address:
Grid.Code@neso.energy

Revision	Section	Related Modification	Effective Date
0	Glossary & Definitions	GC0136	05 March 2021
0	Planning Code	GC0136	05 March 2021
0	Connection Conditions	GC0136	05 March 2021
0	European Connection Conditions	GC0136	05 March 2021
0	Demand Response Services	GC0136	05 March 2021
0	Compliance Processes	GC0136	05 March 2021
0	Europeans Compliance Processes	GC0136	05 March 2021
0	Operating Code 1	GC0136	05 March 2021
0	Operating Code 2	GC0136	05 March 2021
0	Operating Code 5	GC0136	05 March 2021
0	Operating Code 6	GC0136	05 March 2021
0	Operating Code 7	GC0136	05 March 2021
0	Operating Code 8	GC0136	05 March 2021
0	Operating Code 8A	GC0136	05 March 2021
0	Operating Code 8B	GC0136	05 March 2021
0	Operating Code 9	GC0136	05 March 2021
0	Operating Code 11	GC0136	05 March 2021
0	Operating Code 12	GC0136	05 March 2021
0	Balancing Code 2	GC0136	05 March 2021

Revision	Section	Related Modification	Effective Date
0	Balancing Code 3	GC0136	05 March 2021
0	Balancing Code 4	GC0136	05 March 2021
0	Balancing Code 5	GC0136	05 March 2021
0	Data Registration Code	GC0136	05 March 2021
0	General Conditions	GC0136	05 March 2021
0	Governance Rules	GC0136	05 March 2021
1	Glossary & Definitions	GC0130	18 March 2021
1	Operating Code 2	GC0130	18 March 2021
1	Data Registration Code	GC0130	18 March 2021
1	General Conditions	GC0130	18 March 2021
2	Glossary & Definitions	GC0147	17 May 2021
2	Operating Code 6B	GC0147	17 May 2021
2	Operating Code 7	GC0147	17 May 2021
2	Balancing Code 1	GC0147	17 May 2021
2	Balancing Code 2	GC0147	17 May 2021
3	Balancing Code 2	GC0144	26 May 2021
3	Balancing Code 4	GC0144	26 May 2021
4	Preface	GC0149	03 August 2021
4	Glossary & Definitions	GC0149	03 August 2021
4	Planning Code	GC0149	03 August 2021

Revision	Section	Related Modification	Effective Date
4	European Connection Conditions	GC0149	03 August 2021
4	European Compliance Processes	GC0149	03 August 2021
4	Demand Response Services Code	GC0149	03 August 2021
4	Operating Code 2	GC0149	03 August 2021
4	Balancing Code 4	GC0149	03 August 2021
4	Data Registration Code	GC0149	03 August 2021
4	Governance Rules	GC0149	03 August 2021
5	Operating Code 7	GC0109	23 August 2021
6	Connection Conditions	GC0134	01 September 2021
6	European Connection Conditions	GC0134	01 September 2021
6	Balancing Code 2	GC0134	01 September 2021
7	Operating Code 6B	GC0150	04 October 2021
8	Operating Code 2	GC0151	08 November 2021
8	Operating Code 3	GC0151	08 November 2021
8	Operating Code 5	GC0151	08 November 2021
9	Governance Rules	GC0152	29 December 2021
10	General Conditions	Electrical Standards - EDL Instruction Interface Valid Reason Codes	20 January 2022
11	Glossary & Definitions	GC0137	14 February 2022
11	Planning Code	GC0137	14 February 2022

Revision	Section	Related Modification	Effective Date
11	Connection Conditions	GC0137	14 February 2022
11	European Connection Conditions	GC0137	14 February 2022
11	European Compliance Processes	GC0137	14 February 2022
11	Data Registration Code	GC0137	14 February 2022
12	Glossary & Definitions	GC0153	09 March 2022
12	Connection Conditions	GC0153	09 March 2022
12	European Connection Conditions	GC0153	09 March 2022
12	Operating Code 6	GC0153	09 March 2022
12	Operating Code 8A	GC0153	09 March 2022
12	Operating Code 8B	GC0153	09 March 2022
12	Operating Code 12	GC0153	09 March 2022
12	Balancing Code 2	GC0153	09 March 2022
12	Governance Rules	GC0153	09 March 2022
13	Compliance Processes	GC0138	24 June 2022
13	European Compliance Processes	GC0138	24 June 2022
13	Operating Code 5	GC0138	24 June 2022
14	Glossary & Definitions	GC0157	06 October 2022
14	European Connection Conditions	GC0157	06 October 2022
14	Operating Code 2	GC0157	06 October 2022
14	Operating Code 5	GC0157	06 October 2022

Revision	Section	Related Modification	Effective Date
14	Data Registration Code	GC0157	06 October 2022
14	No changes to published Grid Code	GC0158	06 December 2022
15	Glossary & Definitions	GC0160	07 December 2022
15	Balancing Code 1	GC0160	07 December 2022
15	Balancing Code 2	GC0160	07 December 2022
16	Planning Code	GC0141	05 January 2023
16	Connection Conditions	GC0141	05 January 2023
16	European Connection Conditions	GC0141	05 January 2023
16	Compliance Processes	GC0141	05 January 2023
16	European Compliance Processes	GC0141	05 January 2023
17	Connection Conditions	GC0148	4 September 2023
17	European Compliance Processes	GC0148	4 September 2023
17	European Connection Conditions	GC0148	4 September 2023
17	General Conditions	GC0148	4 September 2023
17	Glossary & Definitions	GC0148	4 September 2023
17	Operating Code 5	GC0148	4 September 2023
17	Operating Code 6	GC0148	4 September 2023
17	Planning Code	GC0148	4 September 2023
18	Operating Code 6	GC0161	2 October 2023
19	European Connection Conditions	GC0165	4 December 2023

Revision	Section	Related Modification	Effective Date
19	Operating Code 12	GC0165	4 December 2023
19	Data Registration Code	GC0165	4 December 2023
19	Governance Rules	GC0165	4 December 2023
20	Operating Code 6	GC0162	15 December 2023
21	Glossary & Definitions	GC0156	4 March 2024
21	Planning Code	GC0156	4 March 2024
21	Connection Conditions	GC0156	4 March 2024
21	European Connection Conditions	GC0156	4 March 2024
21	Operating Code 1	GC0156	4 March 2024
21	Operating Code 2	GC0156	4 March 2024
21	Operating Code 5	GC0156	4 March 2024
21	Operating Code 9	GC0156	4 March 2024
21	Balancing Code 2	GC0156	4 March 2024
21	Balancing Code 4	GC0156	4 March 2024
21	Data Registration Code	GC0156	4 March 2024
21	General Conditions	GC0156	4 March 2024
22	Glossary & Definitions	GC0154	2 April 2024
22	Balancing Code 1	GC0154	2 April 2024
22	Balancing Code 2	GC0154	2 April 2024
23	Glossary & Definitions	GC0170	22 April 2024

Revision	Section	Related Modification	Effective Date
23	Planning Code	GC0170	22 April 2024
23	Connection Conditions	GC0170	22 April 2024
23	European Connection Conditions	GC0170	22 April 2024
23	Operating Code 2	GC0170	22 April 2024
23	Operating Code 5	GC0170	22 April 2024
23	Operating Code 9	GC0170	22 April 2024
23	Data Registration Code	GC0170	22 April 2024
23	General Conditions	GC0170	22 April 2024
24	General Conditions	Distribution Restoration Zone Control System Standard	4 June 2024
25	Glossary & Definitions	GC0163	5 July 2024
25	European Connection Conditions	GC0163	5 July 2024
26	Glossary & Definitions	GC0171	5 September 2024
26	Compliance Processes	GC0171	5 September 2024
26	European Compliance Processes	GC0171	5 September 2024
27	Glossary & Definitions	Establishing ISOP in industry codes 2024	1 October 2024
27	Planning Code	Establishing ISOP in industry codes 2024	1 October 2024
27	Connection Conditions	Establishing ISOP in industry codes 2024	1 October 2024
27	European Connection Conditions	Establishing ISOP in industry codes	1 October 2024

Revision	Section	Related Modification	Effective Date
		2024	
27	Demand Response Services	Establishing ISOP in industry codes 2024	1 October 2024
27	Compliance Processes	Establishing ISOP in industry codes 2024	1 October 2024
27	European Compliance Processes	Establishing ISOP in industry codes 2024	1 October 2024
27	Operating Code 2	Establishing ISOP in industry codes 2024	1 October 2024
27	Data Registration Code	Establishing ISOP in industry codes 2024	1 October 2024
27	General Conditions	Establishing ISOP in industry codes 2024	1 October 2024
27	Governance Rules	Establishing ISOP in industry codes 2024	1 October 2024
28	General Conditions	Electrical Standards - EDL Instruction Interface Valid Reason Codes	7 November 2024
29	Glossary & Definitions	GC0175	28 March 2025
29	Connection Conditions	GC0175	28 March 2025
29	European Connection Conditions	GC0175	28 March 2025
29	Operating Code 7	GC0175	28 March 2025
29	Balancing Code 1	GC0175	28 March 2025

Revision	Section	Related Modification	Effective Date
29	Balancing Code 2	GC0175	28 March 2025
29	General Conditions	GC0175	28 March 2025
30	Glossary & Definitions	GC0172	3 April 2025
30	General Conditions	GC0172	3 April 2025
31	Glossary & Definitions	GC0159	8 April 2025
31	Planning Code	GC0159	8 April 2025
31	Operating Code 9	GC0159	8 April 2025
31	General Conditions	Electrical Standards - Electronic Data Transfer (EDT) Interface Specification, Communications Standards, EDL Message Interface Specification, Control Telephony Standard	8 April 2025
32	Connection Conditions	GC0177	19 May 2025
32	European Connection Conditions	GC0177	19 May 2025
32	Compliance Processes	GC0177	19 May 2025
32	European Compliance Processes	GC0177	19 May 2025
33	European Connection Conditions	GC0180	11 June 2025
33	Operating Code 6B	GC0180	11 June 2025
33	Balancing Code 1	GC0180	11 June 2025
33	Balancing Code 2	GC0180	11 June 2025
34	Glossary & Definitions	GC0166	05 November 2025

Revision	Section	Related Modification	Effective Date
34	Balancing Code 1	GC0166	05 November 2025
34	Balancing Code 2	GC0166	05 November 2025
34	General Conditions	Electrical Standards - EDL Instruction Interface Valid Reason Codes	05 November 2025
35	Glossary & Definitions	GC0183	04 December 2025
35	Operating Code 2	GC0183	04 December 2025
35	Operating Code 7	GC0183	04 December 2025
35	Balancing Code 1	GC0183	04 December 2025
36	Operating Code 2	GC0174	12 December 2025
36	Data Registration Code	GC0174	12 December 2025
37	General Conditions	Electrical Standards - EDL Message Interface Specification	13 April 2026
38	Planning Code	GC0173	05 May 2026
38	Connection Conditions	GC0173	05 May 2026
38	European Connection Conditions	GC0173	05 May 2026
38	European Compliance Processes	GC0173	05 May 2026
38	Balancing Code 3	GC0173	05 May 2026
39	Glossary & Definitions	GC0169	07 May 2026
39	Balancing Code 3	GC0169	07 May 2026
39	General Conditions	GC0169	07 May 2026

40	Glossary & Definitions	Establishing a harmonised prioritisation process in the Industry Codes	29 May 2026
40	Governance Rules	Establishing a harmonised prioritisation process in the Industry Codes	29 May 2026
41	Glossary & Definitions	GC0187	05 June 2026
41	Connection Conditions	GC0187	05 June 2026
41	European Connection Conditions	GC0187	05 June 2026
41	Compliance Processes	GC0187	05 June 2026
41	European Compliance Processes	GC0187	05 June 2026
41	Operating Code 2	GC0187	05 June 2026
41	Operating Code 5	GC0187	05 June 2026
41	Operating Code 6B	GC0187	05 June 2026
41	Balancing Code 1	GC0187	05 June 2026
41	Balancing Code 2	GC0187	05 June 2026
41	Data Registration Code	GC0187	05 June 2026
41	General Conditions	GC0187	05 June 2026
41	Governance Rules	GC0187	05 June 2026
42	Glossary & Definitions	GC0164	09 July 2026
42	Planning Code	GC0164	09 July 2026
42	European Compliance Processes	GC0164	09 July 2026
42	Operating Code 2	GC0164	09 July 2026

42	Operating Code 5	GC0164	09 July 2026
42	Operating Code 7	GC0164	09 July 2026
42	Balancing Code 1	GC0164	09 July 2026
42	Balancing Code 2	GC0164	09 July 2026
42	Data Registration Code	GC0164	09 July 2026
42	General Conditions	GC0164	09 July 2026
43	General Conditions	Electrical Standards - EDL Instruction Interface Valid Reason Codes	27 July 2026
44	Glossary & Definitions	GC0139	10 August 2026
44	Planning Code	GC0139	10 August 2026
44	Operating Code 5	GC0139	10 August 2026
44	Operating Code 6	GC0139	10 August 2026
44	Data Registration Code	GC0139	10 August 2026
45	Glossary & Definitions	GC0176	13 August 2026
45	Operating Code 6	GC0176	13 August 2026
45	Operating Code 7	GC0176	13 August 2026
45	Governance Rules	GC0176	13 August 2026

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