GLOSSARY AND DEFINITIONS for GB Grid Code (G & D)

E+W term	E+W definition	GB term	Changed definition / Comments
Act	The Electricity Act 1989 (as amended by the Utilities Act 2000)		The Electricity Act 1989 (as amended by the Utilities Act 2000 and the Electricity (Trading and Transmission) Act [xxxx])
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 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.		
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.		

Ancillary Service	A **System Ancillary Service** and/or a **Commercial Ancillary Service**, as the case may be.		
Ancillary Services Agreement	An agreement between a **User** and **NGC** for the payment by **NGC** to that **User** in respect of the provision by such **User** of **Ancillary Services**.		An agreement between a **User** and ~~NGC~~the **System Operator** for the payment by ~~NGC~~the **System Operator** 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 an **NGC Financial Year** which has a 50% chance of being exceeded as a result of weather variation alone.		A particular combination of weather elements which gives rise to a level of peak **Demand** within a~~n NGC~~ **Financial Year** which has a 50% chance of being exceeded as a result of weather variation alone.
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.		
Apparatus	Other than in **OC8**, means all equipment in which electrical conductors are used, supported or of which they may form a part. 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**.		
Area Manager	A manager appointed by **NGC** whose management unit is a geographical area embracing part of the **NGC Transmission System**.		For consideration by GCEG.
Authorised Electricity Operator	Any person (other than **NGC** in its capacity as operator of the **NGC Transmission System**) who is authorised under the **Act** to generate, transmit or supply electricity.		Any person (other than ~~NGC~~the **System Operator** in its capacity as operator of the ~~NGC~~ **Transmission System**) who is authorised under the **Act** to generate, ~~transmit~~ participate in the transmission of, distribute or supply electricity.

Automatic Voltage Regulator or **AVR**	A continuously acting automatic excitation system to control a **Generating Unit** terminal voltage.		
Authority for Access	An authority which grants the holder the right to unaccompanied access to sites containing exposed **HV** conductors.		
Authority, The	The **Authority** established by section 1 (1) of the Utilities Act 2000		
Auxiliaries	Any item of **Plant** and/or **Apparatus** not directly a part of the boiler plant or **Generating Unit**, but required for the boiler plant's or **Generating Unit's** functional operation.		
Auxiliary Diesel Engine	A diesel engine driving a **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 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	**Protection** equipment or system which is intended to operate when a system fault is not cleared in due time because of failure or inability of the **Main Protection** to operate or in case of failure to operate of a circuit-breaker other than the associated circuit breaker.		
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 **Transmission 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 **NGC** in accordance with Special Condition AA4 of the **Transmission Licence**.		A statement prepared by ~~**NGC**~~the **System Operator** in accordance with Special Condition ~~AA4~~[xxx] of the **Transmission Licence**.
Bid-Offer Acceptance	a) A communication issued by **NGC** in accordance with **BC2.7**; or b) an **Emergency Instruction** to the extent provided for in BC2.9.2.3.		b) A communication issued by ~~**NGC**~~the **System Operator** 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 **Transmission Licence**		
Black Start	The procedure necessary for a recovery from a **Total Shutdown** or **Partial Shutdown**.		
Black Start Capability	An ability in respect of a **Black Start Station**, for at least one of its **Gensets** to **Start-Up** from **Shutdown** and to energise a part of the **System** and be **Synchronised** to the **System** upon instruction from, within two hours, without an external electrical power supply.		An ability in respect of a **Black Start Station**, for at least one of its **Gensets** to **Start-Up** from **Shutdown** and to energise a part of the **System** and be **Synchronised** to the **System** upon instruction from ~~**NGC**~~the **System Operator**, within two hours, without an external electrical power supply.

Black Start Stations	**Power Stations** which are registered, pursuant to the **Bilateral Agreement** with a **User**, as having a **Black Start Capability**.		
Black Start Test	A **Black Start Test** carried out by a **Generator** with a **Black Start Station**, on the instructions of **NGC**, in order to demonstrate that a **Black Start Station** has a **Black Start Capability**.		A **Black Start Test** carried out by a **Generator** with a **Black Start Station**, on the instructions of ~~**NGC**~~the **System Operator**, in order to demonstrate that a **Black Start Station** has a **Black Start Capability**.
BM Participant	A person who is responsible for and controls one or more **BM Units**. 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**, 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**.		
BS Station Test	A **Black Start Test** carried out by a **Generator** with a **Black Start Station** while the **Black Start Station** is disconnected from all external alternating current electrical supplies.		

BS Unit Test	A **Black Start Test** carried out on a **Generating Unit** or a **CCGT Unit**, as the case may be, at a **Black Start Station** while the **Black Start Station** remains connected to an external alternating current electrical supply.		
Business Day	Any week day (other than a Saturday) on which banks are open for domestic business in the City of London.		
Cancellation of NGC System Warning	The notification given to **Users** when a **NGC System Warning** is cancelled.	**Cancellation of ~~NGC~~Transmission System Warning**	The notification given to **Users** when a ~~**NGC**~~**Transmission System Warning** is cancelled.
Caution Notice	A notice conveying a warning against interference.		
CENELEC	European Committee for Electrotechnical Standardisation.		
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 3 of OC2 showing the combination of **CCGT Units** within a **CCGT Module** which would be running in relation to any given MW output.		
Combined Cycle Gas Turbine Module or **CCGT Module**	A collection of **Generating Units** (registered as a **CCGT 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 **NGC** in operating the **Total System** if a **User** (or other person) 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**).		**Ancillary Services**, other than **System Ancillary Services**, utilised by ~~**NGC**~~**the System Operator** in operating the **Total System** if a **User** (or other person) 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**).
Committed Project Planning Data	Data relating to a **User Development** once the offer for a **CUSC Contract** is accepted.		
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 **NGC Transmission System**.		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 ~~**NGC**~~ **Transmission System**.
Complex	A **Connection Site** together with the associated **Power Station** and/or **Network Operator** substation and/or associated **Plant** and/or **Apparatus**, as appropriate.		
Connection Conditions or **CC**	That portion of the **Grid Code** which is identified as the **Connection Conditions**.		

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	An **NGC Site** or **User Site**, as the case may be.		A ~~NGC~~Transmission **Site** or **User Site**, as the case may be.
Construction Agreement	Has the meaning set out in the **Transmission Licence**		
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 Calls	A telephone call whose destination and/or origin is a key on the control desk telephone keyboard at an **NGC Control Centre** and which has the right to exercise priority over (ie. disconnect) a call of a lower status.		A telephone call whose destination and/or origin is a key on the control desk telephone keyboard at a ~~NGC~~ System Operator **Control Centre** and which has 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 **NGC Transmission System** or a **User System** other than a **Generator's System** or an **External System**.		A location used for the purpose of control and operation of the ~~NGC~~ **Transmission System** or a **User System** other than a **Generator's System** or an **External System**.
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**, in England or Wales at a **Large Power Station** or at a **Medium Power Station** or with a **Demand Capacity** with a magnitude of 50MW or more, is physically controlled by a **BM Participant**; or c) In the case of any other **BM Unit**, data submission is co-ordinated for a **BM Participant** and instructions are received from **NGC**, as the case may be. For a **Generator** this will normally be at a **Power Station**. 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**.		The point from which:- a) A **Non-Embedded Customer's Plant** and **Apparatus** is controlled; or b) A **BM Unit**, ~~in England or Wales~~ at a **Large Power Station** or at a **Medium Power Station** or with a **Demand Capacity** with a magnitude of 50MW or more in England and Wales or 5MW or more in Scotland, is physically controlled by a **BM Participant**; or c) In the case of any other **BM Unit**, data submission is co-ordinated for a **BM Participant** and instructions are received from ~~**NGC**~~the **System Operator**, as the case may be. For a **Generator** this will normally be at a **Power Station**. 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 method by which a **User's Responsible Engineer/Operator** and **NGC Control Engineer(s)** speak to one another for the purposes of control of the **Total System** in both normal and emergency operating conditions.		The method by which a **User's Responsible Engineer/Operator** and ~~**NGC**~~ the **System Operator Control Engineer(s)** speak to one another for the purposes of control of the **Total System** in both normal and emergency operating conditions.
CUSC	Has the meaning set out in the **Transmission Licence**		
CUSC Contract	One or more of the following agreements as envisaged in Supplementary Standard Condition C7F of the **Transmission 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**;		One or more of the following agreements as envisaged in Supplementary Standard Condition ~~C7F~~[XXX] of the **Transmission 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 **Transmission Licence**		
Customer	A person to whom electrical power is provided (whether or not he is 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 Generating Plant	A **Power Station** or **Generating Unit** 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**.		
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 **NGC** under the **Grid Code** as set out in the document "NETA Data Validation, Consistency and Defaulting Rules" - Issue 5, dated 18th December 2000. The document is available upon request from **NGC**.		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 ~~**NGC**~~**the System Operator** under the **Grid Code** as set out in the document "NETA Data Validation, Consistency and Defaulting Rules" - Issue 5, dated 18th December 2000. The document is available upon request from ~~**NGC**~~**the System Operator**.
De-Load	The condition in which a **Genset** has reduced or is not delivering electrical power to the **System** to which it is **Synchronised**.		
Demand	The demand of MW and Mvar of electricity (i.e. both **Active** and **Reactive Power**), unless otherwise stated.		
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 **NGC**); (b) **Customer Demand** reduction by **Disconnection** initiated by **Network Operators** (other than following an instruction from **NGC**); (c) **Demand** reduction instructed by **NGC**; (d) automatic low **Frequency Demand Disconnection**; (e) emergency manual **Demand Disconnection**.		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 ~~NGC~~the **System Operator**); (b) **Customer Demand** reduction by **Disconnection** initiated by **Network Operators** (other than following an instruction from ~~NGC~~the **System Operator**); (c) **Demand** reduction instructed by ~~NGC~~the **System Operator**; (d) automatic low **Frequency Demand Disconnection**; (e) emergency manual **Demand Disconnection**.
Designed Minimum Operating Level	The output (in whole MW) below which a **Genset** has no **High Frequency Response** capability.		
De-Synchronise	a) The act of taking a **Generating Unit** 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(s)	Has the meaning set out in OC9.5.1(a)		
Detailed Planning Data	Detailed additional data which **NGC** requires under the **PC** in support of **Standard Planning Data**. Generally it is first supplied once a **Bilateral Agreement** is entered into.		Detailed additional data which ~~NGC~~the **System Operator** requires under the **PC** in support of **Standard Planning Data**. Generally it is first supplied once a **Bilateral Agreement** is entered into.

Discrimination	The quality where a relay or protective system is enabled to pick out and cause to be disconnected only the faulty **Apparatus**.		
Disconnection	The physical separation of **Users** (or **Customers**) from the **NGC Transmission System** or a **User System** as the case may be.		The physical separation of **Users** (or **Customers**) from the ~~**NGC**~~ **Transmission System** or a **User System** as the case may be.
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**.		
Dynamic Parameters	Those parameters listed in Appendix 1 to **BC1** under the heading **BM Unit Data** – **Dynamic Parameters**.		
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 retained 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 **NGC** or that **User**, as the case may be.		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 retained 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 ~~NGC~~the System Operator, 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.		
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 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.**		
Electromagnetic Compatibility Level	Has the meaning set out in **Engineering Recommendation** G5/4.		

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 **NGC** (but with no other connection to the **NGC Transmission System**).		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 ~~NGC~~a Transmission Licensee (but with no other connection to the ~~NGC~~ **Transmission System**).
Emergency Instruction	An instruction issued by **NGC** 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**, **QPN** or **Other Relevant Data**, and may include an instruction to trip a **Genset**.		An instruction issued by ~~NGC~~the System Operator 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**, **QPN** or **Other Relevant Data**, and may include an instruction to trip a **Genset**.
Engineering Recommendations	The documents referred to as such and issued by the Electricity Association or the former Electricity Council.		
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 seven succeeding **NGC Financial Years** will be an estimate of what is expected.		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 seven succeeding ~~NGC~~ **Financial Years** will be an estimate of what is expected.
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**.		

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 BS**4999 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 BS**4999 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 BS**4999 Section 116.1 : 1992].		

Existing AGR Plant	The following nuclear advanced gas cooled reactor plant (which was commissioned and connected to the **Total System** at the **Transfer Date**):- Dungeness B Hinkley Point B Heysham 1 Heysham 2 Hartlepool.		The following nuclear advanced gas cooled reactor plant (which was commissioned and connected to the **Total System** at the **Transfer Date**):- Dungeness B Hinkley Point B Heysham 1 Heysham 2 Hartlepool. Hunterston 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 **NGC** 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 **NGC**) 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 **NGC** 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).		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 ~~NGC~~the **System Operator** 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 ~~NGC~~the **System Operator**) 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 ~~NGC~~the **System Operator** 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**):- Calder Hall Dungeness A Hinkley Point A Oldbury-on-Severn Bradwell Sizewell A Wylfa.		The following nuclear gas cooled reactor plant (which was commissioned and connected to the **Total System** at the **Transfer Date**):- Calder Hall Chappelc Cross Dungeness A Hinkley Point A Oldbury-on-Severn Bradwell Sizewell A 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 **NGC 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.		**Apparatus** for the transmission of electricity to or from the ~~NGC~~ **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.
Externally Interconnected System Operator or **EISO**	A person who operates an **External System** which is connected to the **NGC Transmission System** or a **User System** by an **External Interconnection**.		A person who operates an **External System** which is connected to the ~~NGC~~ **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 England and Wales and any **Apparatus** or **Plant** which connects that system to the **External Interconnection** and which is owned or operated by such **Externally Interconnected System Operator**.		In relation to an **Externally Interconnected System Operator** means the transmission or distribution system which it owns or operates which is located outside England, ~~and~~ Wales and Scotland and any **Apparatus** or **Plant** which connects that system to the **External Interconnection** and which is owned or operated by such **Externally Interconnected System Operator**.

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).		
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.		
Final Generation Outage Programme	An outage programme as agreed by **NGC** with each **Generator** 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 **NGC Transmission System Outages** will be planned.		An outage programme as agreed by ~~**NGC**~~the **System Operator** with each **Generator** 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 ~~**NGC**~~ **Transmission System Outages** will be planned.
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 **NGC** (if it did not propose the **System Test**) and other members of the **Test Panel**.		A report prepared by the **Test Proposer** at the conclusion of a **System Test** for submission to ~~**NGC**~~the **System Operator** (if it did not propose the **System Test**) and other members of the **Test Panel**.
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 Hertz) at which a **System** is running.		

Frequency Sensitive AGR Unit	Each **Generating Unit** in an **Existing AGR Plant** for which the **Generator** has notified **NGC** 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**.		Each **Generating Unit** in an **Existing AGR Plant** for which the **Generator** has notified ~~**NGC**~~**the System Operator** 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 **NGC** in relation to operation in **Frequency Sensitive Mode** (or such greater number as may be agreed between **NGC** 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.		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 ~~**NGC**~~**the System Operator** in relation to operation in **Frequency Sensitive Mode** (or such greater number as may be agreed between ~~**NGC**~~**the System Operator** 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** 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.		
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**, together with the associated stop valves and gas monitors required for the safe operation of the **NGC Transmission System** or the **User System**, as the case may be.		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**, together with the associated stop valves and gas monitors required for the safe operation of the ~~NGC~~ **Transmission System** or the **User System**, as the case may be.
Gate Closure	Has the meaning set out in the **BSC**.		
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	Unless otherwise provided in the **Grid Code**, any **Apparatus** which produces electricity, including, for the avoidance of doubt, a **CCGT Unit**.		
Generation Capacity	Has the meaning set out in the **BSC**.		
Generation Planning Parameters	Those parameters listed in Appendix 2 of **OC2**.		
Generator	A person who generates electricity under licence or exemption under the **Act** acting in its capacity as a generator in England and Wales.		A person who generates electricity under licence or exemption under the **Act** acting in its capacity as a generator in England, ~~and~~ Wales or Scotland.
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 **Generating Unit** or **CCGT Module** at a **Large Power Station**.		A **Generating Unit** or **CCGT Module** at a **Large Power Station** or any Generating Unit or CCGT Module which is directly connected to the 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.		
Governor Deadband	The total magnitude of the change in steady state speed (expressed as a range of Hz (± x Hz) where "x" is a numerical value) within which there is no resultant change in the position of the governing valves of the speed/load Governing System.		
Grid Code Review Panel or **Panel**	The panel with the functions set out in GC.4.		
Grid Entry Point	A point at which a **Generating Unit** or a **CCGT Module** or a **CCGT Unit**, as the case may be, which is directly connected to the **NGC Transmission System** connects to the **NGC Transmission System**.		A point at which a **Generating Unit** or a **CCGT Module** or a **CCGT Unit**, as the case may be, which is directly connected to the ~~**NGC**~~ **Transmission System** connects to the ~~**NGC**~~ **Transmission System**.
Grid Supply Point	A point of supply from the **NGC Transmission System** to **Network Operators** or **Non-Embedded Customers**.		A point of supply from the ~~**NGC**~~ **Transmission System** to **Network Operators** or **Non-Embedded Customers**.

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.		
High Voltage or **HV**	A voltage exceeding 650 volts.		
HV Generator Connections	**Apparatus** connected at the same voltage as that of the **NGC Transmission System**, including **Users'** circuits, the higher voltage windings of **Users'** transformers and associated connection **Apparatus**.		**Apparatus** connected at the same voltage as that of the ~~NGC~~ **Transmission System**, including **Users'** circuits, the higher voltage windings of **Users'** transformers and associated connection **Apparatus**
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**.		
IEC	International Electrotechnical Commission.		
IEC Standard	A standard approved by the International Electrotechnical Commission.		
Implementing Safety Co-ordinator	The **Safety Co-ordinator** implementing **Safety Precautions**.		

Incident Centre	A centre established by **NGC** or a **User** as the focal point in **NGC** or in that **User**, as the case may be, for the communication and dissemination of information between the senior management representatives of **NGC**, or of that **User**, as the case may be, and the relevant other parties during a **Joint System Incident** in order to avoid overloading **NGC's**, or that **User's**, as the case may be, existing operational/control arrangements.		A centre established by ~~NGC~~the **System Operator** or a **User** as the focal point in ~~NGC~~the **System Operator** or in that **User**, as the case may be, for the communication and dissemination of information between the senior management representatives of ~~NGC~~the **System Operator**, or of that **User**, as the case may be, and the relevant other parties during a **Joint System Incident** in order to avoid overloading ~~NGC~~the **System Operator's**, or that **User's**, as the case may be, existing operational/control arrangements.
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** 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**		
Instructor Facilities	A device or system which gives certain **NGC Control Centre** instructions with an audible or visible alarm, and incorporates the means to return message acknowledgements to the **NGC Control Centre**		A device or system which gives certain ~~NGC~~the **System Operator** **Control Centre** instructions with an audible or visible alarm, and incorporates the means to return message acknowledgements to the ~~NGC~~the **System Operator** **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**.		

Interconnection Agreement	An agreement made between **NGC** and an **Externally Interconnected System Operator** and/or an **Interconnector User** relating to an **External Interconnection** and/or an agreement under which an **Interconnector User** can use an **External Interconnection**.		An agreement made between ~~**NGC**~~the **System Operator** and an **Externally Interconnected System Operator** and/or an **Interconnector User** relating to an **External Interconnection** and/or an agreement under which an **Interconnector User** can use an **External Interconnection**.
Interconnector User	Has the meaning set out in the **BSC**.		
Interface Agreement	An agreement between a **User** and **NGC** containing provisions for dealing with the consequences of a **User** owning or operating **Plant** or **Apparatus** which is sited on another **User's** land and/or for the sharing of facilities and/or the provision of services at or near a **Connection Site**.		An agreement ~~between a **User** and **NGC**~~under the CUSC and the STC containing provisions for dealing with the consequences of a **User** owning or operating **Plant** or **Apparatus** which is sited on another **User's** land and/or for the sharing of facilities and/or the provision of services at or near a **Connection Site**.
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 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**.		
Isolating Device	A device for achieving **Isolation**.		

Isolation	The disconnection of **HV Apparatus** (as defined in OC8.1.4.2) 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 retained in safe custody; or (ii) maintained and/or secured by such other method which must be in accordance with the **Local Safety Instructions** of **NGC** or the **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** of **NGC** or the **User**, as the case may be.		The disconnection of **HV Apparatus** (as defined in OC8.1.4.2) 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 retained in safe custody; or (ii) maintained and/or secured by such other method which must be in accordance with the **Local Safety Instructions** of ~~**NGC**~~ the **System Operator**, the **Relevant Transmission Licensee** or the **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** of ~~**NGC**~~the **System Operator**, the **Relevant Transmission Licensee** or the **User**, as the case may be.
Joint BM Unit Data	Has the meaning set out in the **BSC**.		

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 **NGC** 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 **NGC Transmission System**, and in the case of an **Event** on the **NGC Transmission System**, on a **User(s) System(s)** (other than on an **Embedded Medium Power Station** or **Embedded Small Power Station**).		An **Event** wherever occurring (other than on an **Embedded Medium Power Station** or an **Embedded Small Power Station**) which, in the opinion of ~~**NGC**~~the **System Operator** 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 ~~**NGC**~~ **Transmission System**, and in the case of an **Event** on the ~~**NGC**~~ **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** with a **Registered Capacity** of 100MW or more.		A **Power Station** in England and Wales with a **Registered Capacity** of 100MW or more~~.~~; or a **Power Station** in **SPT's** area with a **Registered Capacity** of 30MW or more; or a **Power Station** in **SHETL's** area with a **Registered Capacity** of 5MW or more.
Licence	Any licence granted to **NGC** or a **User**, under Section 6 of the **Act**.		Any licence granted to the **System Operator** or a **User** ~~to **NGC** or a **User**~~ under Section 6 of the **Act**.
Licence Standards	Those standards set out or referred to in Special Condition AA2 of the **Transmission Licence**.		Those standards set out or referred to in Special Condition ~~AA2~~XXXX of the **Transmission Licence**.
Limited Frequency Sensitive Mode	A mode whereby the operation of the **Genset** is **Frequency** insensitive except when the **System Frequency** exceeds 50.4Hz, from which point **Limited High Frequency Response** must be provided.		
Limited High Frequency Response	A response of a **Genset** to an increase in **System Frequency** above 50.4Hz leading to a reduction in **Active Power** in accordance with the provisions of BC3.7.2.		
Load	The **Active**, **Reactive** or **Apparent Power**, as the context requires, generated, transmitted or distributed.		

Loaded	Supplying electrical power to the **System**.		
Load Factor	The ratio of the actual output of a **Generating Unit** to the possible maximum output of that **Generating Unit**.		
Local Joint Restoration Plan	A plan produced under OC9.4.7.11 detailing the agreed method and procedure by which a **Genset** at a **Black Start Station** (possibly with other **Gensets** at that **Black Start Station**) will energise part of the **Total System** and meet complementary blocks of local **Demand** so as to form a **Power Island**.		
Local Safety Instructions	Instructions on each **User Site** and **NGC Site**, approved by the relevant **NGC** or **User's** manager, setting down the methods of achieving the objectives of **NGC'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 his **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**.		Under further consideration.
Localised Negative Reserve Active Power Margin or **Localised NRAPM**	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 **NGC** may determine.		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 ~~**NGC**~~**the System Operator** 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**.		
Low Frequency Relay	Has the same meaning as **Under Frequency Relay**.		
Low Voltage or **LV**	A voltage not exceeding 250 volts.		
Main Protection	**Protection** equipment or system expected to have priority in initiating either a fault clearance or an action to terminate an abnormal condition in a power system.		
Material Effect	An effect causing a **User** or **NGC**, as the case may be, to effect any works or to alter the manner of operation of its **Plant** and/or **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 which in either case involves that **User** or **NGC**, as the case may be, in expenditure of more than £10,000.		An effect causing a **User** or ~~**NGC**~~**the System Operator**, as the case may be, to effect any works or to alter the manner of operation of ~~its~~ **Plant** and/or **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 which in either case involves that **User** or ~~**NGC**~~**the System Operator**, as the case may be, in expenditure of more than £10,000.
Medium Power Station	A **Power Station** with a **Registered Capacity** of 50MW or more, but less than 100MW.		A **Power Station** in England and Wales with a **Registered Capacity** of 50MW or more, but less than 100MW; or a **Power Station** in **SPT's** area with a **Registered Capacity** of 5MW or more, but less than 30MW.
Medium Voltage or **MV**	A voltage exceeding 250 volts but not exceeding 650 volts.		
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 under stable operating conditions, as registered with **NGC** 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.		The minimum output (in whole MW) which a **Genset** can generate under stable operating conditions, as registered with ~~**NGC**~~**the System Operator** 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.

Modification	Any actual or proposed replacement, renovation, modification, alteration or construction by or on behalf of a **User** or **NGC** to either that **User's Plant** or **Apparatus** or **NGC's Plant** or **Apparatus**, as the case may be, or the manner of its operation which has or may have a **Material Effect** on **NGC** or a **User**, as the case may be, at a particular **Connection Site**.		Any actual or proposed replacement, renovation, modification, alteration or construction by or on behalf of a **User** or ~~NGC~~the **System Operator** to either that **User's Plant** or **Apparatus** or ~~NGC's~~**Transmission Plant** or **Apparatus**, as the case may be, or the manner of its operation which has or may have a **Material Effect** on ~~NGC~~the **System Operator** or a **User**, as the case may be, at a particular **Connection Site**.
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**.		
National Demand	The amount of electricity supplied from the **Grid Supply Points** plus:- • that supplied by **Embedded Large Power Stations**, and • **NGC Transmission Losses**, minus:- • the **Demand** taken by **Station Transformers** and **Pumped Storage Units'** and, for the purposes of this definition, does not include:- • any exports from the **NGC Transmission System** across **External Interconnections.**		The amount of electricity supplied from the **Grid Supply Points** plus:- • that supplied by **Embedded Large Power Stations**, and • ~~NGC~~ **Transmission Losses**, minus:- • the **Demand** taken by **Station Transformers** and **Pumped Storage Units'** and, for the purposes of this definition, does not include:- ♦ any exports from the ~~NGC~~ **Transmission System** across **External Interconnections.**
Network Data	The data to be provided by **NGC** to **Users** in accordance with the **PC**, as listed in Part 3 of the Appendix to the **PC**.		The data to be provided by ~~NGC~~the **System Operator** to **Users** in accordance with the **PC**, as listed in Part 3 of the Appendix to the **PC**.

Network Operator	A person with a **User System** directly connected to the **NGC 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**.		A person with a **User System** directly connected to the ~~NGC~~ **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**
NGC	National Grid Company plc.	**~~NGC~~**	~~National Grid Company plc.~~
NGC Control Engineer	The nominated person employed by **NGC** to direct the operation of the **NGC Transmission System**.	**~~NGC~~ System Operator Control Engineer**	The nominated person employed by ~~NGC~~the **System Operator** to direct the operation of the ~~NGC~~ **Transmission System**.
NGC Demand	The amount of electricity supplied from the **Grid Supply Points** plus:- • that supplied by **Embedded Large Power Stations**, and • exports from the **NGC Transmission System across External Interconnections**, and • **NGC Transmission Losses**, and, for the purposes of this definition, includes:- • the **Demand** taken by **Station Transformers** and **Pumped Storage Units.**	**~~NGC~~GB Demand**	The amount of electricity supplied from the **Grid Supply Points** plus:- • that supplied by **Embedded Large Power Stations**, and • exports from the ~~NGC~~ **Transmission System across External Interconnections**, and • ~~NGC~~ **Transmission Losses**, and, for the purposes of this definition, includes:- ♦ the **Demand** taken by **Station Transformers** and **Pumped Storage Units.**
NGC Financial Year	Bears the meaning given in Supplementary Standard Condition 1 (Definitions and Interpretation) of the **Transmission Licence**.	**~~NGC~~ Financial Year**	
NGC Operational Strategy	**NGC's** operational procedures which form the guidelines for operation of the **NGC Transmission System**.	**~~NGC~~System Operator Operational Strategy**	~~NGC~~The **System Operator's** operational procedures which form the guidelines for operation of the ~~NGC~~**Transmission System**.

NGC Site	Means a site owned (or occupied pursuant to a lease, licence or other agreement) by **NGC** in which there is a **Connection Point**. For the avoidance of doubt, a site owned by a **User** but occupied by **NGC** as aforesaid, is an **NGC Site**.	**~~NGC~~ Transmission Site**	Means a site owned (or occupied pursuant to a lease, licence or other agreement) by a **~~NGC~~ Transmission Licensee** in which there is a **Connection Point**. For the avoidance of doubt, a site owned by a **User** but occupied by **~~NGC~~ a Transmission Licensee** as aforesaid, is a~~n~~ **~~NGC~~ Transmission Site**.
NGC System Warning	A warning issued by **NGC** 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 **NGC**.	**~~NGC~~ Transmission System Warning**	A warning issued by ~~**NGC**~~**the System Operator** 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 ~~**NGC**~~**the System Operator**.
NGC System Warning - Demand Control Imminent	A warning issued by **NGC**, 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 **NGC** within 30 minutes.	**~~NGC~~ Transmission System Warning – Demand Control Imminent**	A warning issued by ~~**NGC**~~**the System Operator**, 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 ~~**NGC**~~**the System Operator** within 30 minutes.
NGC System Warning - High Risk of Demand Reduction	A warning issued by **NGC**, 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 inadequate **System Margin**.	**~~NGC~~ Transmission System Warning - High Risk of Demand Reduction**	A warning issued by ~~**NGC**~~**the System Operator**, 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 inadequate **System Margin**.

NGC System Warning - Inadequate System Margin	A warning issued by **NGC**, in accordance with OC7.4.8.5, which is intended to alert recipients of an inadequate **System Margin** and which if not improved may result in **Demand** reduction being instructed.	**~~NGC~~ Transmission System Warning – Inadequate System Margin**	A warning issued by ~~**NGC**~~**the System Operator**, in accordance with OC7.4.8.5, which is intended to alert recipients of an inadequate **System Margin** and which if not improved may result in **Demand** reduction being instructed.
NGC System Warning - Risk of System Disturbance	A warning issued by **NGC**, 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**.	**~~NGC~~ Transmission System Warning - Risk of System Disturbance**	A warning issued by ~~**NGC**~~**the System Operator**, 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**.
NGC Transmission System	The system consisting (wholly or mainly) of high voltage electric lines owned or operated by **NGC** and used for the transmission of electricity from one **Power Station** to a sub-station or to another **Power Station** or between sub-stations or to or from any **External Interconnection**, and includes any **Plant** and **Apparatus** and meters owned or operated by **NGC** in connection with the transmission of electricity but does not include any **Remote Transmission Assets**.	**~~NGC~~ Transmission System**	The system consisting (wholly or mainly) of high voltage electric lines owned or operated by **a Transmission Licensee** and used for the transmission of electricity from one **Power Station** to a sub-station or to another **Power Station** or between sub-stations or to or from any **External Interconnection**, and includes any **Plant** and **Apparatus** and meters owned or operated by **a Transmission Licensee** in connection with the transmission of electricity but does not include any **Remote Transmission Assets**. To be reviewed when licence drafting is available.
NGC Transmission System Losses	The losses of electricity incurred on the **NGC Transmission System**.	**~~NGC~~ Transmission System Losses**	The losses of electricity incurred on the ~~**NGC**~~ **Transmission System**.

NGC Transmission System Study Network Data File	A computer file containing details of transmission plant and **Large Power Stations** and the configuration of the connection between them, together with data on **Demand**, on the **NGC Transmission System**, the Scottish **External Interconnections** and the Scottish **External System**. These details, when read together as represented in the file, form **NGC's** view of an appropriate representation of the **NGC Transmission System**, Scottish **External Interconnection** and Scottish **External System**, for technical analysis purposes only. The file will only deal with the **NGC Transmission System**, the Scottish **External Interconnections** and aspects of the Scottish **External Systems'** transmission system. For the purposes of this definition, the phrase "**External Systems**" shall include the transmission system of Scottish and Southern Energy plc.	~~**NGC**~~ **Transmission System Study Network Data File**	A computer file containing details of transmission plant and **Large Power Stations** and the configuration of the connection between them, together with data on **Demand**, on the ~~**NGC**~~ **Transmission System**. These details, when read together as represented in the file, form ~~**NGC**~~the **System Operator's** view of an appropriate representation of the ~~**NGC**~~ **Transmission System** for technical analysis purposes only. The file will only deal with the ~~**NGC**~~ **Transmission System**.
No-Load Field Voltage	Shall have the meaning ascribed to that term in **IEC** 34-16-1:1991 [equivalent to **British Standard BS**4999 Section 116.1 : 1992].		
Non-Embedded Customer	A **Customer** in England and Wales, except for a **Network Operator** acting in its capacity as such, receiving electricity direct from the **NGC Transmission System** irrespective of from whom it is supplied.		A **Customer** in England~~and~~, Wales or Scotland, except for a **Network Operator** acting in its capacity as such, receiving electricity direct from the ~~**NGC**~~ **Transmission System** irrespective of from whom it is supplied.
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.		

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 0500 hours on one day to 0500 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**, incorporating its numbering, nomenclature and labelling.		
Operational Effect	Any effect on the operation of the relevant other **System** which causes the **System** of **NGC** or 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.		Any effect on the operation of the relevant other **System** which causes the **Transmission System** ~~of NGC~~ 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** and **System** to **Demand** intertripping schemes.		
Operational Planning	Planning through various timescales the matching of generation output with forecast **NGC Demand** together with a reserve of generation to provide a margin, taking into account outages of certain **Generating Units**, of parts of the **NGC 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 **Transmission Licence** or **Electricity Distribution Licence**, as the case may be.		Planning through various timescales the matching of generation output with forecast ~~NGC~~**GB Demand** together with a reserve of generation to provide a margin, taking into account outages of certain **Generating Units**, of parts of the ~~NGC~~ **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 **Transmission Licence** or **Electricity Distribution Licence**, as the case may be.
Operational Planning Margin	An operational planning margin set by **NGC**.		An operational planning margin set by ~~NGC~~the **System Operator**.
Operational Planning Phase	The period from 8 weeks to the end of the 5th 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 **NGC Control Engineer** and **User Responsible Engineer/Operator**.		Operation of **Plant** and/or **Apparatus** to the instruction of the relevant ~~NGC~~**System Operator Control Engineer** and **User Responsible Engineer/Operator**.
Other Relevant Data	The data listed in BC1.4.2(f) under the heading **Other Relevant Data**		

Out of Synchronism	The condition where a **System** or **Generating Unit** cannot meet the requirements to enable it to be **Synchronised**.		
Output Usable or **OU**	That portion of **Registered Capacity** which is not unavailable due to a **Planned Outage** or breakdown.		
Over-excitation Limiter	Shall have the meaning ascribed to that term in **IEC** 34-16-1:1991 [equivalent to **British Standard BS**4999 Section 116.1 : 1992].		
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**. An exhaustive list of **Part 1 System Ancillary Services** is included in that part of CC.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 headed Part 2.		
Part Load	The condition of a **Genset** which is **Loaded** but is not running at its Maximum Export Limit.		
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 **NGC's** directions relating to a **Black Start**.		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 ~~**NGC**~~the **System Operator's** directions relating to a **Black Start**.
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**.		
Planning Code or **PC**	That portion of the **Grid Code** which is identified as the **Planning Code**.		
Planned Maintenance Outage	An outage of the **NGC** electronic data communication facilities as provided for in CC.6.5.8 and **NGC'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 **NGC** 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 **NGC** to the **User**. It is anticipated that normally any planned outage would only last around one hour.		An outage of the ~~NGC~~**System Operator** electronic data communication facilities as provided for in CC.6.5.8 and ~~NGC~~the **System Operator'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 ~~NGC~~the **System Operator** 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 ~~NGC~~the **System Operator** 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 **NGC Transmission System**, or of part of a **User System**, co-ordinated by **NGC** under **OC2**.		An outage of a **Large Power Station** or of part of the ~~NGC~~ **Transmission System**, or of part of a **User System**, co-ordinated by ~~NGC~~the **System Operator** 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 **NGC Transmission System** electrically nearest to the **User** installation at which either **Demands** or **Loads** are, or may be, connected.		That point on the ~~NGC~~**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 **NGC Transmission System** and a **User's System**.		An electrical point of connection between the ~~NGC~~ **Transmission System** and a **User's System**.
Point of Isolation	The point on **Apparatus** (as defined in OC8.1.4.2) at which **Isolation** is achieved.		
Post-Control Phase	The period following real time operation.		
Power Factor	The ratio of **Active Power** to **Apparent Power**.		

Power Island	**Gensets** at an isolated **Power Station**, together with complementary local **Demand**.		
Power Station	An installation comprising one or more **Generating Units** (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 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 **NGC** both to all **Users** identified by it under OC12.4.2.1 and to the **Test Proposer**, notifying them of a proposed **System Test**.		A notice in writing, sent by ~~NGC~~the **System Operator** 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.		
Programming Phase	The period between **Operational Planning Phase** and the **Control Phase**. It starts at the 8 weeks ahead stage and finishes at 17:00 on the day ahead of real time.		
Proposal Notice	A notice submitted to **NGC** by a **User** which would like to undertake a **System Test**.		A notice submitted to ~~NGC~~the **System Operator** 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**.		

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.		
Pumped Storage Generator	A **Generator** which owns and/or operates any **Pumped Storage Plant**.		
Pumped Storage Plant	The Dinorwig and Ffestiniog **Power Stations**.		The Dinorwig, ~~and~~ Ffestiniog, Cruachan and Foyers **Power Stations**.
Pumped Storage Unit	A **Generating Unit** within a **Pumped Storage Plant**.		
Quiescent Physical Notification or **QPN**	Data that describes the MW levels to be deducted from the **Physical Notification** of a **BM Unit** to determine a resultant operating level to which the **Dynamic Parameters** associated with that **BM Unit** apply, and the associated times for such MW levels. The MW level of the **QPN** must always be set to zero.		
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 BS**4999 Section 116.1 : 1992].		
Rated MW	The "rating-plate" MW output of a **Generating Unit**, being that output up to which the **Generating Unit** was designed to operate (Calculated as specified in **British Standard BS** EN 60034 - 1: 1995).		

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**.		

Registered Capacity	(a) In the case of a **Generating Unit** other than that forming part of a **CCGT 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). (b) In the case of a **CCGT Module**, the normal full load capacity of a **CCGT Module** as declared by the **Generator**, being the **Active Power** declared by the **Generator** as being deliverable by the **CCGT Module** at the **Grid Entry Point** (or in the case of an **Embedded CCGT Module**, at the **User System Entry Point**), expressed in whole MW. (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**. The maximum **Active Power** deliverable is the maximum amount deliverable simultaneously by the **Generating Units** and/or **CCGT Modules** less the **MW** consumed by the **Generating Units** and/or **CCGT Modules** in producing that **Active Power**.		
Registered Data	Those items of **Standard Planning Data** and **Detailed Planning Data** which upon connection become fixed (subject to any subsequent changes).		
Regulations	The Utilities Contracts Regulations 1996, as amended from time to time.		

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.		
Remote Transmission Assets	Any **Plant** and **Apparatus** or meters owned by **NGC** which: a) are **Embedded** in a **User System** and which are not directly connected by **Plant** and/or **Apparatus** owned by **NGC** to a sub-station owned by **NGC**; and b) are by agreement between **NGC** and such **User** operated under the direction and control of such **User**.		Any **Plant** and **Apparatus** or meters owned by ~~NGC~~a **Transmission Licensee** which: a) are **Embedded** in a **User System** and which are not directly connected by **Plant** and/or **Apparatus** owned by ~~NGC~~ a **Transmission Licensee** to a sub-station owned by ~~NGC~~ a **Transmission Licensee**; and b) are by agreement between ~~NGC~~the **System Operator** and such **User** operated under the direction and control of such **User**.
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 **NGC** to sign **Site Responsibility Schedules** on behalf of that **User** or **NGC**, as the case may be.		For consideration by GCEG.
Re-synchronisation	The bringing of parts of the **Network Operator's User System** which have become **Out of Synchronism** with each other back into **Synchronism**, and like terms shall be construed accordingly.		

Safety Co-ordinator	A person or persons nominated by **NGC** and each **User** to be responsible for the co-ordination of **Safety Precautions** at each **Connection Point** 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 OC8.1.4.2), pursuant to **OC8**.		For consideration by GCEG.
Safety From The System	That condition which safeguards persons when work is to be carried out on 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 **NGC** 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**.		The rules of ~~NGC~~a **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**.

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.		
Secretary of State	Has the same meaning as in the **Act**.		
Settlement Period	A period of 30 minutes ending on the hour and half-hour in each hour during a day.		
Seven Year Statement	A statement, prepared by **NGC** in accordance with the terms of the **Transmission Licence**, showing for each of the seven succeeding **NGC Financial Years**, the opportunities available for connecting to and using the **NGC Transmission System** and indicating those parts of the **NGC Transmission System** most suited to new connections and transport of further quantities of electricity.		A statement, prepared by ~~NGC~~the **System Operator** in accordance with the terms of the **Transmission Licence**, showing for each of the seven succeeding ~~NGC~~**Financial Years**, the opportunities available for connecting to and using the ~~NGC~~ **Transmission System** and indicating those parts of the ~~NGC~~ **Transmission System** most suited to new connections and transport of further quantities of electricity.
SF_6 Gas Zone	A segregated zone surrounding electrical conductors within a casing containing SF_6 gas.		
Shutdown	The condition of a **Generating Unit** where the generator rotor is at rest or on barring.		

Significant Incident	An **Event** which either: a) was notified by a **User** to **NGC** under **OC7**, and which **NGC** considers has had or may have had a significant effect on the **NGC Transmission System**, and **NGC** requires the **User** to report that **Event** in writing in accordance with **OC10** and notifies the **User** accordingly; or b) was notified by **NGC** 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 **NGC** to report that **Event** in writing in accordance with the provisions of **OC10** and notifies **NGC** accordingly.		An **Event** which either: b) was notified by a **User** to ~~NGC~~the **System Operator** under **OC7**, and which ~~NGC~~the **System Operator** considers has had or may have had a significant effect on the ~~NGC~~ **Transmission System**, and ~~NGC~~the **System Operator** requires the **User** to report that **Event** in writing in accordance with **OC10** and notifies the **User** accordingly; or c) was notified by ~~NGC~~the **System Operator** 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 ~~NGC~~the **System Operator** to report that **Event** in writing in accordance with the provisions of **OC10** and notifies ~~NGC~~the **System Operator** 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 **NGC** 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 **NGC** of the instruction.		A tap change implemented on the generator step-up transformers of **Synchronised Gensets**, effected by **Generators** in response to an instruction from ~~NGC~~the **System Operator** 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 ~~NGC~~the **System Operator** of the instruction.
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** which incorporate **Connection 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**.		
Small Power Station	A **Power Station** with a **Registered Capacity** of less than 50MW.		A **Power Station** in England and Wales with a **Registered Capacity** of less than 50MW; or a **Power Station** in **SPT's** or **SHETL's** areas with a **Registered Capacity** of less than 5 MW.
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.		
Standard Planning Data	The general data required by **NGC** under the **PC**. It is generally also the data which **NGC** requires from a new **User** in an application for a **CUSC Contract**, as reflected in the **PC**.		The general data required by ~~NGC~~the **System Operator** under the **PC**. It is generally also the data which ~~NGC~~the **System Operator** requires from a new **User** in an application for a **CUSC Contract**, as reflected in the **PC**.
Start Time	The time named as such in an instruction issued by **NGC** pursuant to the **BC**s.		The time named as such in an instruction issued by ~~NGC~~the **System Operator** pursuant to the **BC**s.
Start-Up	The action of bringing a **Generating Unit** from **Shutdown** to **Synchronous Speed**.		
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 **Power Station**, which is not directly connected to the **Generating Unit** terminals (typical voltage ratios being 132/11kV or 275/11kV).		
Steam Unit	A **Generating Unit** whose prime mover converts the heat-energy in steam to mechanical energy.		
Subtransmission System	The part of a **User's System** which operates at a single transformation below a **Supergrid Voltage**.		
Supergrid Voltage	Any voltage greater than 200kV.		Any voltage greater than 200KV in England and Wales or 100kV in Scotland.
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 England and Wales.		(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 England, ~~and~~ Wales or Scotland.

Surplus	A MW figure relating to a **System Zone** equal to the total **Output Usable** in the **System Zone:** a) minus the forecast of **Active Power Demand** in the **System Zone**, and b) minus the export limit in the case of an export limited **System Zone**, or plus the import limit in the case of an import limited **System Zone**, and c) (only in the case of a **System Zone** comprising the **NGC Transmission System**) minus the **Operational Planning Margin**. For the avoidance of doubt, a **Surplus** of more than zero in an export limited **System Zone** indicates an excess of generation in that **System Zone**; and a **Surplus** of less than zero in an import limited **System Zone** indicates insufficient generation in that **System Zone.**		A MW figure relating to a **System Zone** equal to the total **Output Usable** in the **System Zone:** a) minus the forecast of **Active Power Demand** in the **System Zone**, and b) minus the export limit in the case of an export limited **System Zone**, or plus the import limit in the case of an import limited **System Zone**, and c) (only in the case of a **System Zone** comprising the ~~NGC~~ **Transmission System**) minus the **Operational Planning Margin**. For the avoidance of doubt, a **Surplus** of more than zero in an export limited **System Zone** indicates an excess of generation in that **System Zone**; and a **Surplus** of less than zero in an import limited **System Zone** indicates insufficient generation in that **System Zone.**
Synchronised	a) The condition where an incoming **Generating Unit** or **System** is connected to the busbars of another **System** so that the **Frequencies** and phase relationships of that **Generating Unit** or **System**, as the case may be, and the **System** to which it is connected are identical, like terms shall be construed accordingly. b) The condition where an importing **BM Unit** is consuming electricity.		
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 Speed	That speed required by a **Generating Unit** to enable it to be **Synchronised** to a **System**.		
System	Any **User System** and/or the **NGC Transmission System**, as the case may be.		Any **User System** and/or the ~~**NGC**~~ **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** not available due to a **System Constraint**.		
System Constraint Group	A part of the **NGC 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.		A part of the ~~**NGC**~~ **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 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 F_1 = Number of **System** faults where there was a failure to trip a circuit-breaker.		
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 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 Zone	A region of the **NGC Transmission System** within a described boundary or the whole of the **NGC Transmission System**, as further provided for in OC2.2.4, and the term "**Zonal**" will be construed accordingly.		A region of the ~~NGC~~ **Transmission System** within a described boundary or the whole of the ~~NGC~~ **Transmission System**, as further provided for in OC2.2.4, and the term "**Zonal**" will be construed accordingly.
Target Frequency	That **Frequency** determined by **NGC**, in its reasonable opinion, as the desired operating **Frequency** of the **Total System**. This will normally be 50.00Hz plus or minus 0.05Hz, except in exceptional circumstances as determined by **NGC**, in its reasonable opinion when this may be 49.90 or 50.10Hz. An example of exceptional circumstances may be difficulties caused in operating the **System** during disputes affecting fuel supplies.		That **Frequency** determined by ~~NGC~~the **System Operator**, in its reasonable opinion, as the desired operating **Frequency** of the **Total System**. This will normally be 50.00Hz plus or minus 0.05Hz, except in exceptional circumstances as determined by ~~NGC~~the **System Operator**, in its reasonable opinion when this may be 49.90 or 50.10Hz. An example of exceptional circumstances may be difficulties caused in operating the **System** during disputes affecting fuel supplies.
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.		
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 Programme	A programme submitted by the **Test Panel** to **NGC**, the **Test Proposer**, and each **User** identified by **NGC** 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.		A programme submitted by the **Test Panel** to ~~**NGC**~~the **System Operator**, the **Test Proposer**, and each **User** identified by ~~**NGC**~~the **System Operator** 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**.		
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 **NGC's** directions relating to a **Black Start**.		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 ~~**NGC**~~the **System Operator**'s directions relating to a **Black Start**.
Total System	The **NGC Transmission System** and all **User Systems** in England and Wales.		The ~~**NGC**~~ **Transmission System** and all **User Systems** in England, ~~and~~ Wales and Scotland.
Trading Point	A commercial and, where so specified in the **Grid Code**, an operational interface between a **User** and **NGC**, which a **User** has notified to **NGC**.		A commercial and, where so specified in the **Grid Code**, an operational interface between a **User** and ~~**NGC**~~the **System Operator**, which a **User** has notified to ~~**NGC**~~the **System Operator**.
Transfer Date	Such date as may be appointed by the **Secretary of State** by order under section 65 of the **Act**.		
Transmission Licence	The licence granted under Section 6(1)(b) of the **Act**.		

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.		
Two Shifting Limit	The maximum number of times in any **Operational Day** that a **Genset** may **De-Synchronise**.		
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 BS**4999 Section 116.1 : 1992].		
Under Frequency Relay	An electrical measuring relay intended to operate when its characteristic quantity (**Frequency**) reaches the relay settings by 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 23/11kV and 15/6.6Kv.		
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**.		

User	A term utilised in various sections of the **Grid Code** to refer to the persons using the **NGC 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.		A term utilised in various sections of the **Grid Code** to refer to the persons using the ~~NGC~~ **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.
User Development	In the **PC** means either **User's Plant** and/or **Apparatus** to be connected to the **NGC Transmission System**, or a **Modification** relating to a **User's Plant** and/or **Apparatus** already connected to the **NGC Transmission System**, or a proposed new connection or **Modification** to the connection within the **User System**.		In the **PC** means either **User's Plant** and/or **Apparatus** to be connected to the ~~NGC~~ **Transmission System**, or a **Modification** relating to a **User's Plant** and/or **Apparatus** already connected to the ~~NGC~~ **Transmission System**, or a proposed new connection or **Modification** to the connection within the **User System**.
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 **NGC** but occupied by a **User** as aforesaid, is a **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 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) **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 other entry points to the point of delivery to **Customers**, or other **Users**; and **Plant** and/or **Apparatus** connecting:- (c) The system as described above; or (d) **Non-Embedded Customers** equipment; to the **NGC 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 **NGC Transmission System**.		Any system owned or operated by a **User** comprising:- (a) **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 other entry points to the point of delivery to **Customers**, or other **Users**; and **Plant** and/or **Apparatus** connecting:- (c) The system as described above; or (d) **Non-Embedded Customers** equipment; to the ~~**NGC**~~ **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 ~~**NGC**~~ **Transmission System**.
User System Entry Point	A point at which a **Generating Unit**, a **CCGT Module** or a **CCGT Unit**, as the case may be, which is **Embedded** connects to the **User System**.		
Water Time Constant	Bears the meaning ascribed to the term "Water inertia time" in **IEC**308.		
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**.		

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**.		

New Definitions: Additional definitions to be considered

Term	Definition	Comments
System Operator	Means the holder for the time being of a transmission licence in relation to which licence the **Authority** has issued a Section C Direction and where Section C remains in effect	
Transmission Licensee	Means the holder for the time being of a transmission licence	
Relevant Transmission Licensee	Means SPT in South of Scotland and SHETL in North of Scotland	
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 Transmission System, and not of or with the User System	
System Operator - Transmission Owner Code or **STC**	Means the system operator and transmission owner code required to be in place, pursuant to the transmission licences	
Demand Control Notification Level	12 MW in England and Wales, 0 MW in Scotland.	

Customer Demand Management Notification Level	12 MW in England and Wales, 5 MW in Scotland.	
SHETL	Scottish Hydro-Electric Transmission Limited	
SPT	Scottish Power Transmission Limited	