

GC0134 Legal Text

EXTRACTS FROM CC.6.5

CC.6.5 Communications Plant

CC.6.5.1 In order to ensure control of the **National Electricity Transmission System**, telecommunications between **GB Code Users** and **The Company** must (including in respect of any **OTSDUW Plant and Apparatus** at the **OTSUA Transfer Time**), if required by **The Company**, be established in accordance with the requirements set down below.

CC.6.5.2 Control Telephony and System Telephony

CC.6.5.2.1 **Control Telephony** is the principle method by which a **User's Responsible Engineer/Operator** and **The Company's Control Engineers** speak to one another for the purposes of control of the **Total System** in both normal and emergency operating conditions. **Control Telephony** provides secure point to point telephony for routine **Control Calls**, priority **Control Calls** and emergency **Control Calls**.

CC.6.5.2.2 **System Telephony** is an alternate method by which a **User's Responsible Engineer/Operator** and **The Company's Control Engineers** speak to one another for the purposes of control of the **Total System** in both normal operating conditions and where practicable, emergency operating conditions. **System Telephony** uses ~~the Public Switched Telephony Network~~ an appropriate public communications network to provide telephony for **Control Calls**, inclusive of emergency **Control Calls**. ~~For the avoidance of doubt, System Telephony could include but shall not be limited to: an analogue or digital telephone line; a mobile telephone or an internet-based voice communication system, all of which shall be connected to an appropriate public communications network.~~

Commented [SP1]: ST definition revised to include mobiles / VOIP

CC.6.5.2.3 Calls made and received over **Control Telephony** and **System Telephony** may be recorded and subsequently replayed for commercial and operational reasons.

~~CC.6.5.3 Supervisory Tones~~

~~CC.6.5.3.1 **Control Telephony** supervisory tones indicate to the calling and receiving parties dial, engaged, ringing, secondary engaged (signifying that priority may be exercised) and priority disconnect tones.~~

~~CC.6.5.3.2 **System Telephony** supervisory tones indicate to the calling and receiving parties dial, engaged and ringing tones.~~

Commented [SP2]: Removal of out of date requirement that is now common knowledge.

CC.6.5.4 Obligations in respect of Control Telephony and System Telephony

CC.6.5.4.1 Where **The Company** requires **Control Telephony**, **Users** are required to use the **Control Telephony** with **The Company** in respect of all **Connection Points** with the **National Electricity Transmission System** and in respect of all **Embedded Large Power Stations** and **Embedded DC Converter Stations**. **The Company** will have **Control Telephony** installed at the **GB Code User's Control Point** where the **GB Code User's** telephony equipment is not capable of providing the required facilities or is otherwise incompatible with the **Transmission Control Telephony**. Details of and relating to the **Control Telephony** required are contained in the **Bilateral Agreement**.

- CC.6.5.4.2 Where in **The Company's** sole opinion the installation of **Control Telephony** is not practicable at a **GB Code User's Control Point(s)**, **The Company** shall specify in the **Bilateral Agreement** whether **System Telephony** is required. Where **System Telephony** is required by **The Company**, the **GB Code User** shall ensure that **System Telephony** is installed.
- CC.6.5.4.3 Where **System Telephony** is installed, **GB Code Users** are required to use the **System Telephony** with **The Company** in respect of those **Control Point(s)** for which it has been installed. Details of and relating to the **System Telephony** required are contained in the **Bilateral Agreement**.
- CC.6.5.4.4 Where **Control Telephony** or **System Telephony** is installed, routine testing of such facilities may be required by **The Company** (not normally more than once in any calendar month). The **GB Code User** and **The Company** shall use reasonable endeavours to agree a test programme and where **The Company** requests the assistance of the **GB Code User** in performing the agreed test programme the **User** shall provide such assistance. **The Company** requires the **GB Code User** to test the backup power supplies feeding its **Control Telephony** facilities at least once every 5 years.
- CC.6.5.4.5 **Control Telephony** and **System Telephony** shall only be used for the purposes of operational voice communication between **The Company** and the relevant **User**.
- CC.6.5.4.6 **Control Telephony** contains emergency calling functionality to be used for urgent operational communication only. Such functionality enables **The Company** and **Users** to utilise a priority call in the event of an emergency. **The Company** and **GB Code Users** shall only use such priority call functionality for urgent operational communications.
- CC.6.5.5 Technical Requirements for Control Telephony and System Telephony
- CC.6.5.5.1 Detailed information on the technical interfaces and support requirements for **Control Telephony** is provided in the **Control Telephony Electrical Standard** identified in the Annex to the **General Conditions**. Where additional information, or information in relation to **Control Telephony** applicable in Scotland, is requested by **GB Code Users**, this will be provided, where possible, by **The Company**.
- CC.6.5.5.2 **System Telephony** shall consist of a dedicated ~~Public Switched Telephone Network~~ telephone ~~connected to an appropriate public communications network line~~ that shall be ~~installed and~~ configured by the relevant **GB Code User**. **The Company** shall provide a dedicated free phone number (UK only), for the purposes of receiving incoming calls to **The Company**, which **GB Code Users** shall utilise for **System Telephony**. **System Telephony** shall only be utilised by **The Company Control Engineer** and the **GB Code User's Responsible Engineer/Operator** for the purposes of operational communications.

EXTRACTS FROM CC.7.9

- CC 7.9 **GB Generators and DC Converter Station owners and BM Participants** shall provide a **Control Point**.

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a) In the case of GB Generators and DC Converter Station owners, for each Power Station or DC Converter Station directly connected to the National Electricity Transmission System and for each Embedded Large Power Station or Embedded DC Converter Station, the Control Point shall receive and act upon instructions pursuant to OC7 and BC2 at all times that Generating Units or Power Park Modules at the Power Station are generating or available to generate or DC Converters at the DC Converter Station are importing or exporting or available to do so. In the case of all BM Participants, the Control Point shall be continuously manned except where the Bilateral Agreement in respect of such Embedded Power Station specifies that compliance with BC2 is not required, where in which case the Control Point shall be manned between the hours of 0800 and 1800 each day.

Commented [SP4]: Correction to omission in baseline

Commented [SP5]: Correction to error in baseline

Commented [SP6]: Added for clarification

Commented [SP7]: Correction to baseline (the clause applies to all Power Stations, not just Embedded)

b) In the case of BM Participants, the BM Participant's Control Point shall be capable of receiving and acting upon instructions from The Company.

Commented [SP8]: Clarification of how the communication requirements apply, to aid understanding of the GC0134 solution

The Company will normally issue instructions via automatic logging devices in accordance with the requirements of CC.6.5.8(b).

Where the BM Participant's Plant and Apparatus does not respond to an instruction from The Company via automatic logging devices, or where it is not possible for The Company to issue the instruction via automatic logging devices, The Company shall issue the instruction by telephone.

In the case of BM Participants who own and/or operate a Power Station or DC Converter Station with an aggregated Registered Capacity or BM Participants with BM Units with an aggregated Demand Capacity per Control Point of less than 50MW, or, where a site is not part of a Virtual Lead Party as defined in the BSC, a Registered Capacity or Demand Capacity per site of less than 10MW:

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a) where this situation arises, a representative of the BM Participant is required to be available to respond to instructions from The Company via the Control Telephony or System Telephony system, as provided for in CC.6.5.4, between the hours of 0800-1800 each day.

b) Outside the hours of 0800-1800 each day, the requirements of BC2.9.7 shall apply.

Commented [SP10]: Clarifies that the existing Grid Code requirement to follow FPN would still apply outside office hours for those below the thresholds.

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For the avoidance of doubt, BM Participants who are unable to provide Control Telephony and do not have a continuously manned Control Point may be unable to act as a Defence Service Provider and shall be unable to act as a Restoration Service Provider or Black Start Service Provider where these require Control Telephony or a Control Point in respect of the specification of any such services falling into these categories.

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EXTRACTS FROM ECC.6.5

ECC.6.5 Communications Plant

ECC.6.5.1 In order to ensure control of the National Electricity Transmission System, telecommunications between Users and The Company must (including in respect of any OTSDUW Plant and Apparatus at the OTSUA Transfer Time), if required by The Company, be established in accordance with the requirements set down below.

ECC.6.5.2 Control Telephony and System Telephony

ECC.6.5.2.1 **Control Telephony** is the principle method by which a **User's Responsible Engineer/Operator** and **The Company's Control Engineers** speak to one another for the purposes of control of the **Total System** in both normal and emergency operating conditions. **Control Telephony** provides secure point to point telephony for routine **Control Calls**, priority **Control Calls** and emergency **Control Calls**.

ECC.6.5.2.2 **System Telephony** is an alternate method by which a **User's Responsible Engineer/Operator** and **The Company's Control Engineers** speak to one another for the purposes of control of the **Total System** in both normal operating conditions and where practicable, emergency operating conditions. **System Telephony** uses ~~the an appropriate public communications network~~ Public Switched Telephony Network to provide telephony for **Control Calls**, inclusive of emergency **Control Calls**. ~~For the avoidance of doubt, System Telephony could include but shall not be limited to: an analogue or digital telephone line; a mobile telephone or an internet-based voice communication system, all of which would be connected to an appropriate public communications network.~~

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ECC.6.5.2.3 Calls made and received over **Control Telephony** and **System Telephony** may be recorded and subsequently replayed for commercial and operational reasons.

~~ECC.6.5.3~~ Supervisory Tones

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~~ECC.6.5.3.1~~ **Control Telephony** supervisory tones indicate to the calling and receiving parties dial, engaged, ringing, secondary engaged (signifying that priority may be exercised) and priority disconnect tones.

~~ECC.6.5.3.2~~ **System Telephony** supervisory tones indicate to the calling and receiving parties dial, engaged and ringing tones.

ECC.6.5.4 Obligations in respect of Control Telephony and System Telephony

ECC.6.5.4.1 Where **The Company** requires **Control Telephony**, **Users** are required to use the **Control Telephony** with **The Company** in respect of all **Connection Points** with the **National Electricity Transmission System** and in respect of all **Embedded Large Power Stations** and **Embedded HVDC Systems**. **The Company** will have **Control Telephony** installed at the **User's Control Point** where the **User's** telephony equipment is not capable of providing the required facilities or is otherwise incompatible with the **Transmission Control Telephony**. Details of and relating to the **Control Telephony** required are contained in the **Bilateral Agreement**.

ECC.6.5.4.2 Where in **The Company's** sole opinion the installation of **Control Telephony** is not practicable at a **User's Control Point(s)**, **The Company** shall specify in the **Bilateral Agreement** whether **System Telephony** is required. Where **System Telephony** is required by **The Company**, the **User** shall ensure that **System Telephony** is installed.

ECC.6.5.4.3 Where **System Telephony** is installed, **Users** are required to use the **System Telephony** with **The Company** in respect of those **Control Point(s)** for which it has been installed. Details of and relating to the **System Telephony** required are contained in the **Bilateral Agreement**.

ECC.6.5.4.4 Where **Control Telephony** or **System Telephony** is installed, routine testing of such facilities may be required by **The Company** (not normally more than once in any calendar month). The **User** and **The Company** shall use reasonable endeavours to agree a test programme and where **The Company** requests the assistance of the **User** in performing the agreed test programme the **User** shall provide such assistance. **The Company** requires the **EU Code User** to test the backup power supplies feeding its **Control Telephony** facilities at least once every 5 years.

ECC.6.5.4.5 **Control Telephony** and **System Telephony** shall only be used for the purposes of operational voice communication between **The Company** and the relevant **User**.

- ECC.6.5.4.6 **Control Telephony** contains emergency calling functionality to be used for urgent operational communication only. Such functionality enables **The Company** and **Users** to utilise a priority call in the event of an emergency. **The Company** and **Users** shall only use such priority call functionality for urgent operational communications.
- ECC.6.5.5 Technical Requirements for Control Telephony and System Telephony
- ECC.6.5.5.1 Detailed information on the technical interfaces and support requirements for **Control Telephony** is provided in the **Control Telephony Electrical Standard** identified in the Annex to the **General Conditions**. Where additional information, or information in relation to **Control Telephony** applicable in Scotland, is requested by **Users**, this will be provided, where possible, by **The Company**.
- ECC.6.5.5.2 **System Telephony** shall consist of a dedicated Public Switched Telephone Network telephone connected to an appropriate public communications network line that shall be ~~installed and~~ configured by the relevant **User**. **The Company** shall provide a dedicated free phone number (UK only), for the purposes of receiving incoming calls to **The Company**, which **Users** shall utilise for **System Telephony**. **System Telephony** shall only be utilised by **The Company's Control Engineer** and the **User's Responsible Engineer/Operator** for the purposes of operational communications.

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EXTRACTS FROM ECC.7.9

- ECC.7.9 **Generators, and HVDC System owners and BM Participants** shall provide a **Control Point**.
- (a) ~~In the case of EU Generators and HVDC System owners, respect of for each Power Station or HVDC System~~ directly connected to the **National Electricity Transmission System** and ~~for each Embedded Large Power Station or Embedded HVDC System, the Control Point shall~~ ~~to~~ receive and act upon instructions pursuant to OC7 and BC2 at all times that **Power Generating Modules** at the **Power Station** are generating or available to generate or **HVDC Systems** are importing or exporting or available to do so. ~~The~~ ~~In the case of all BM Participants, the Control Point~~ shall be continuously manned except where the **Bilateral Agreement** ~~in respect of such Embedded Power Station~~ specifies that compliance with BC2 is not required, ~~where in which case~~ the **Control Point** shall be manned between the hours of 0800 and 1800 each day.
- b) In the case of BM Participants, the BM Participant's Control Point shall be capable of receiving and acting upon instructions from The Company.
- The Company will normally issue instructions via automatic logging devices in accordance with the requirements of ECC.6.5.8(b).
- Where the BM Participant's Plant and Apparatus does not respond to an instruction from The Company via automatic logging devices, or where it is not possible for The Company to issue the instruction via automatic logging devices, The Company shall issue the instruction by telephone.
- In the case of BM Participants who own and/or operate a Power Station or HVDC System with an aggregated Registered Capacity or BM Participants with BM Units with an aggregated Demand Capacity per Control Point of less than 50MW, or, where a site is not part of a Virtual Lead Party as defined in the BSC, a Registered Capacity or Demand Capacity per site of less than 10MW
- a) where this situation arises, a representative of the BM Participant is required to be available to respond to instructions from The Company via the Control Telephony or System Telephony system, as provided for in ECC.6.5.4, between the hours of 0800-1800 each day.

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b) Outside the hours of 0800-1800 each day, the requirements of BC2.9.7 shall apply.

For the avoidance of doubt, **BM Participants** who are unable to provide **Control Telephony** and do not have a continuously manned **Control Point** may be unable to act as a **Defence Service Provider** and shall be unable to act as a **Restoration Service Provider** or **Black Start Service Provider** where these require **Control Telephony** or a **Control Point** in respect of the specification of any such services falling into these categories.

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EXTRACTS FROM BC2

BC2.9.7 Unplanned Outages Of Electronic Communication And Computing Facilities

BC2.9.7.1 In the event of an unplanned outage of the electronic data communication facilities or of **The Company's** associated computing facilities or in the event of a **Planned Maintenance Outage** lasting longer than the planned duration, in relation to a post-**Gate Closure** period **The Company** will, as soon as it is reasonably able to do so, issue a **The Company** Computing System Failure notification by telephone or such other means agreed between **Users** and **The Company** indicating the likely duration of the outage.

BC2.9.7.2 During the period of any such outage, the following provisions will apply:

(a) **The Company** will issue further **The Company** Computing System Failure notifications by telephone or such other means agreed between **Users** and **The Company** to all **BM Participants** to provide updates on the likely duration of the outage;

(b) (i) ~~BM Participants, not subject to the provisions of BC2.9.7.2(b)(ii), should~~ operate in relation to any period of time in accordance with the last Physical Notification prevailing at **Gate Closure** ~~received prior to current at the time of~~ the computer system failure in relation to each such period of time. Such operation shall be subject to the provisions of BC2.5.1, which will apply as if set out in this BC2.9.7.2. No further submissions of **BM Unit Data** or **Generating Unit Data** (other than data specified in BC1.4.2(c) (**Export and Import Limits**) and BC1.4.2(e) (**Dynamic Parameters**)) should be attempted. Plant failure or similar problems causing significant deviation from **Physical Notification** should be notified to **The Company** by telephone by the submission of a revision to **Export and Import Limits** in relation to the **BM Unit** or **Generating Unit Data** so affected.

~~(ii) BM Participants, who are not required to have Control Telephony or System Telephony manned at all times as provided for in CC7.9 or ECC7.9, should during periods when their telephones are not manned operate in relation to any period of time in accordance with the last Physical Notification prevailing at Gate Closure received at the prior of the computer system failure in relation to each such period of time. Such operation shall be subject to the provisions of BC2.5.1, which will apply as if set out in this BC2.9.7.2. If the BM Participants automatic equipment identifies there has been a computer system failure then no further submissions of BM Unit Data or Generating Unit Data (other than data specified in BC1.4.2(c) (Export and Import Limits) and BC1.4.2(e) (Dynamic Parameters)) should be attempted. For the avoidance of doubt between 08:00 and 18:00 hours the provisions of BC2.9.7.2(b)(i) shall apply.~~

(c) Revisions to **Export and Import Limits** and to **Dynamic Parameters** should be notified to **The Company** by telephone and will be recorded for subsequent use;

(d) **The Company** will issue **Bid-Offer Acceptances** by telephone which will be recorded for subsequent use;

(e) No data will be transferred from **The Company** to the **BMRA** until the communication facilities are re-established.

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