

DRAFT ALL ISLAND GRID CODE

SCHEDULING AND DISPATCH CODE NO.1

UNIT SCHEDULING

[Note: Please note that this is not a final draft of SDC1 and that it is still subject to further consideration.]

[Note: Please note that any paragraphs written in italics in the SDCs apply to one jurisdiction only.]

[Note: Please note that the cross-referencing in this section to other sections of the Grid Code has not yet been fully updated.]

[Note: Please note that the notes which appear in this version of SDC1 are for information only and do not form part of the Grid Code. These notes will not appear in the final versions of SDC1.]

SDC1.1 **INTRODUCTION**

SDC1.1.1 **SEM** Provisions

- (a) This Scheduling and Dispatch Code No. 1 ("SDC1") forms part of the **Sections under Common Governance** of the **Grid Code**. The **Sections under Common Governance** are those parts of the **Grid Code** which are under common governance in both the **Grid Code** and the **Other Grid Code**.
- (b) The form of this SDC1 is similar to the SDC1 in the **Other Grid Code**. Differences relate to references to relevant power systems and related terms. Where there is a difference between a provision in this **Grid Code** and an equivalent provision in the **Other Grid Code**, the wording in question is shaded in grey. In addition, those parts of this SDC1 that are not part of the **Other Grid Code** are shaded in grey in this SDC1. Differences between the form of this SDC1 and the SDC1 in the **Other Grid Code** are summarised in Annex 1 to this SDC1.
- (c) This SDC1 is intended to work in conjunction with other documents, including the **Trading and Settlement Code ("TSC")**. The provisions of the **Grid Code** and the **Other Grid Code** will take precedence over the **TSC**. The **TSC** is the document under which the principal elements of the market for electricity operate. Every **User** which trades in electricity above certain minimum thresholds shall be a party to the **TSC**. The **Market Operator** is a party to the **TSC**, as is the **TSO** and the **Other TSO**.
- (d) The obligation to submit data in relation to some of the information required to be provided to the **TSO** by this SDC1 may be fulfilled by **Users** where such information submitted under the **TSC** is then provided to the **TSO** by the **Market Operator** under the provisions of the **TSC**, as

further provided in this SDC1. The **TSO** may require **Users** to verify or provide revisions to data received by it via the **Market Operator**.

- (e) Further provisions dealing with the **Sections under Common Governance** are contained in the **General Conditions**.

SDC1.1.2 SDC1 sets out the procedure for:

- (a) **Availability**: the daily submission by a **User** to the **TSO** of an **Availability Notice** in respect of any of its:
- (i) **CDGUs** (which for the avoidance of doubt comprise, **Generating Units** subject to **Central Dispatch**, **CCGT Installations**, **Hydro Units**, **Pumped Storage Generation** (but not **Pumped Storage Demand**) and **Dispatchable WFPs**);
 - (ii) **Pumped Storage Plant Demand**;
 - (iii) **Interconnector Availability** (in the case of the **Interconnector Owner**) and **Price** (in the case of an **Interconnector User**);
 - (iv) **Demand Side Units**;
 - (v) **Generator Aggregators** in respect of their **Aggregated Generating Units**; and
 - (vi) **Controllable WFPs**;

[Note: Please note that Controllable WFPs are not currently subject to Dispatch Instructions but the TSOs can directly control the maximum MW being exported from them.]

- (b) **Technical Parameters**: the daily notification to the **TSO** of the **Technical Parameters**, in respect of the following **Trading Day**, by each **User** in a **Technical Parameters Notice**, notification of **Other Relevant Data** and notification of other technical data including **Ancillary Services/System Support Services** capability;

[Note: Please note that "Ancillary Services" will be used in the EirGrid Grid Code and "System Support Services" will be used in the SONI Grid Code.]

- (c) **Commercial Offer Data**: the daily notification of **Commercial Offer Data**;
- (d) **Revisions/Re-declarations**: revisions / **Re-declarations** of such information (other than **Commercial Offer Data** after **Gate Closure**) as provided for this in SDC1;
- (e) **Indicative Operations Schedule**: the production and issuing by the **TSO** of an **Indicative Operations Schedule** the day before the **Trading Day** as a statement of which:

- (i) **CDGUs;**
- (ii) **Pumped Storage Plant Demand;**
- (iii) **Interconnectors;**
- (iv) **Demand Side Units;**
- (v) **Aggregated Generating Units; and/or**
- (vii) **Controllable WFPSs**

may be required.

SDC1.1.3 In this SDC1, the term "**Gate Closure**" shall mean 10.00 hours on the day preceding the relevant **Trading Day** to which the notice relates (D-1).

SDC1.1.4 *In respect of **PPA Generation** the provisions of Appendix B prevail and replace, as stated, the other parts of this SDC1.*

SDC1.2 OBJECTIVE

The objectives of SDC1 are:

- (a) to enable the **TSO**, in conjunction with the **Other TSO**, to prepare an **Indicative Operations Schedule** (utilising, amongst other things, a **Merit Order**) by 16.00 hours on the day preceding the relevant **Trading Day** (D-1) to be used in the **Scheduling** and **Dispatch** process for that **Trading Day**;
- (b) to thereby ensure (so far as possible) the integrity of the **Transmission System** and to ensure that the **TSO** acts in conjunction with the **Other TSO** so that the **Other TSO** can ensure the integrity of the **Other Transmission System** (with the **Other TSO** having a similar objective);
- (c) to ensure the security and quality of supply in relation to the **Transmission System** and to ensure that the **TSO** acts in conjunction with the **Other TSO** so that the **Other TSO** can ensure the security and quality of supply in relation to the **Other Transmission System** (with the **Other TSO** having a similar objective);
- (d) to ensure that there is sufficient capacity to meet the electrical power **Demand**, and thereby in conjunction with the **Other TSO** to ensure that there is sufficient capacity to meet the demand on the Island of Ireland at all times and in both cases together with an appropriate margin of reserve;
- (e) to publish an **Indicative Operations Schedule** as provided for in this SDC1.

SDC1.3 SCOPE

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SDC1 applies to the **TSO** and to the following **Users**:

- (a) **Generators** with regard to their:
CDGUs; and
Controllable WFPs.
- (b) **Pumped Storage Generators** with regard to their **Pumped Storage Plant Demand**;
- (c) **Interconnector Owners** with regard to their **Interconnectors**;
- (d) In respect of the submission of **Commercial Offer Data** under SDC1.4.4.5 only, **Interconnector Users** in respect of their **Interconnector Units**;
- (e) **Dispatchable Demand Customers** in relation to their **Individual Demand Site**;
- (f) **Dispatchable Demand Customers** in relation to their **Aggregated Demand Sites**; and
- (f) **Generator Aggregators** in respect of their **Aggregated Generating Units**.

Each of which (other than the **TSO**) is a “**User**” under this SDC1.

SDC1.4

PROCEDURE

SDC1.4.1

Availability Notice

SDC1.4.1.1

Requirement

- (a) Each **User** shall, by not later than **Gate Closure** each day, notify the **TSO** by means of an **Availability Notice** (in such form as the **TSO** may reasonably notify from time to time or in the form published on the **TSO** website) of the **Availability** and/or **Demand Reduction** (as the case may be) of each of its:
 - (i) **CDGUs**;
 - (ii) **Controllable WFPs**;
 - (iii) **Pumped Storage Plant Demand**;
 - (iv) **Interconnectors** (to be submitted by the **Interconnector Owner**);
 - (v) **Demand Side Units**; or
 - (vii) **Aggregated Generating Units** as the case may be.

- (b) A **User** may satisfy this obligation by submitting the data under the **TSC**, unless the **TSO** requires, by notice to the **User**, the data to be submitted to it directly under the **Grid Code**.
- (c) A **Generator Aggregator** will satisfy the obligation in this SDC1.4.1.1 by notifying to the **TSO** in an **Availability Notice** in the form described in paragraph (a) above the **Availability** of its **Aggregated Generating Units** as the case may be.

SDC1.4.1.2 Content

- (a) The **Availability Notice** shall state the:
 - (i) **Availability** of the relevant:
 - **CDGU**; or
 - **Controllable WFPSs**; or
 - (ii) the **Demand Reduction** of the **Demand Side Unit** or **Pumped Storage Plant Demand**; or
 - (iii) the **Maximum Import** and **Maximum Export Capacity** of an **Interconnector**;

as the case may be, (including, in the case of a **CCGT Installation**, the **Availability** of each of the **CCGT Modules/CCGT Units** within it) for each **Trading Period** in the following **Optimisation Time Horizon** (subject to revision under SDC1.4.5.1(a)). The **Availability Notice** submitted in relation to an **Optimisation Time Horizon** will supersede the previous one in relation to that part of the previous **Optimisation Time Horizon** which is covered by the new one.

[Note: The term “CCGT Module” applies to the SONI Grid Code and the term “CCGT Unit” will apply to the EirGrid Grid Code.]

- (b) In the case of a **Generator Aggregator**, the **Availability Notice** shall state the **Availability** of its **Aggregated Generating Units** as a whole.

SDC1.4.1.3 Whole Numbers: The **MW** figure stated in the **Availability Notice** shall be a whole number.

SDC1.4.1.4 Atmospheric Conditions: In the case of **CDGUs** and **Controllable WFPSs** which are affected by ambient conditions, an **Availability Notice** submitted by a **Generator** shall be stated as being the **User’s** best estimate of the prevailing atmospheric conditions for the **Trading Period** to which each part of the **Availability Notice** relates.

SDC1.4.2 **Additional Grid Code Availability Notice**

The following items are required to be submitted by each **User** by no later than **Gate Closure** each day, with the exception of **Aggregators** and **Dispatchable Demand Customers**, direct to the **TSO**, regardless of whether these have to be submitted under the **TSC**. The requirements in SDC1.4.1 in relation to data apply to this SDC1.4.2 as if repeated here.

SDC1.4.2.1 **Fuels:** In the case where a **CDGU** is capable of firing on different fuels, then the **Generator** shall submit an **Availability Notice** setting out the information in SDC1.4.1 above for each fuel for the **CDGU**.

SDC1.4.2.2 **CCGT Availability**

(a) The **Availability** of each **CCGT Module/CCGT Unit** within each **CCGT Installation**;

[Note: The term “CCGT Module” will apply to the SONI Grid Code and the term “CCGT Unit” will apply to the EirGrid Grid Code.]

CCGT Installations

(b) In the case of a **CCGT Installation**, the **CCGT Installation Matrix** submitted by the **Generator** under PCA2.3.4 of the Planning Code / PC.A4.3 of the Planning Code Appendix (as may be revised as therein provided is used and relied upon by the **TSO** as a ‘look up table’ to determine the number of **CCGT Modules/CCGT Units** within a **CCGT Installation** which will be synchronised to achieve the **MW Output** specified in a **Dispatch Instruction**. When using a **CCGT Installation Matrix** for **Scheduling** purposes, the **TSO** will take account of any updated information on the individual **Availability** of each **CCGT Module/CCGT Unit** contained in an **Availability Notice** submitted by a **Generator** pursuant to this SDC1. The individual **Availability** figures submitted under this SDC1.4.2.2 must be consistent with the **Generator’s** submission under the **TSC**.

[Note: Please note that “PCA2.3.4” will be referred to in the SONI Grid Code and “PC.A4.3 of the Planning Code Appendix” will be referred to in the EirGrid Grid Code.]

[Note: Please note that the standard temperature which will be used as a basis for the CCGT Matrix will be specified in the respective Planning Codes.]

[Note: The term “CCGT Module” will apply to the SONI Grid Code and the term “CCGT Unit” will apply to the EirGrid Grid Code.]

(c) It is accepted that in cases of change in **MW Output** in response to **Dispatch** instructions issued by the **TSO**, there may be a transitional variance to the conditions reflected in the **CCGT Installation Matrix**. Each **Generator** shall notify the **TSO** as soon as practicable after the event of any such variance.

(d) In achieving a **Dispatch Instruction** the range or number of **CCGT Modules/CCGT Units** envisaged in moving from one **MW Output** level to the other should not be departed from.

(e) There is a provision in SDC1.4.5 for the **Generator** to revise the individual **Availability** of each **CCGT Module/CCGT Unit** within each **CCGT Installations**, subject always to the provisions of this SDC1.4.2.2;

[Note: The term “CCGT Module” will apply to the SONI Grid Code and the term “CCGT Unit” will apply to the EirGrid Grid Code.]

(f) **The CCGT Installation Matrix can only be amended such that the CCGT Installation comprises different CCGT Modules in accordance with PCA2.3.5.**

[Note: Please note that the above paragraph applies to Northern Ireland only.]

SDC1.4.3 **General Availability Requirements**

The provisions at SDC1.4.3.1, SDC1.4.3.2 and SDC1.4.3.3 do not apply to PPA Generation which is dealt with in Appendix B.1.

[Note: Please note that words in italics above will not be incorporated in the EG Grid Code.]

SDC1.4.3.1 **Availability of Generating Units**

Each **Generator** and **Generator Aggregator** shall in relation to its **CDGUs** or **Aggregated Generating Units** maintain, repair, operate and fuel the **CDGU** and/or **Controllable WFPS** and/or **Aggregated Generating Unit** as required by **Prudent Operating Practice/Prudent Utility Practice** and any legal requirements applicable to its jurisdiction, with a view to providing the required **System Support Services / Ancillary Services**.

[Note: Please note that the term “Prudent Operating Practice” will be used in the SONI Grid Code whilst the term “Prudent Utility Practice” will be used in the EirGrid Grid Code.]

[Note: Please note that “System Support Services” will be referred to in the SONI Grid Code and “Ancillary Services” will be referred to in the EirGrid Grid Code.]

SDC1.4.3.2 Each **Generator**, and where relevant each **Generator Aggregator**, shall, subject to SDC1.4.3.3, use reasonable endeavours to ensure that it does not at any time declare in the case of its **CDGU**, **Controllable WFPS**, or **Aggregated Generating Unit**, the **Availability** or **Technical Parameters** at levels or values different from those that the **CDGU**, **Controllable WFPS**, and/or an **Aggregated Generating Unit** could achieve at the relevant time. The **TSO** can reject declarations to the extent that they do not meet these requirements.

SDC1.4.3.3 SDC1.4.3.2 shall not apply to the extent:

- (a) it would require the **Generator** or, where relevant, the **Generator Aggregator** to declare levels or values better than the **Registered Capacity** and **Technical Parameters** as submitted under the **Planning Code** in respect of a **CDGU**, a **Controllable WFPS** and/or an **Aggregated Generating Unit**;
- (b) necessary during periods of **Scheduled Outage / Planned Outage** or **Short Term Scheduled Outage / Planned Maintenance Outage** or otherwise with the consent of the **TSO**;

[Note: Please note that “Scheduled Outage” and “Short Term Scheduled Outage” will be used in the EirGrid Grid Code and “Planned Outage” and “Planned Maintenance Outage” will be used in the SONI Grid Code.]

- (c) necessary while repairing or maintaining the **CDGU**, the **Controllable WFPS** and/or the **Aggregated Generating Unit** or equipment necessary to the operation of the **CDGU**, the **Controllable WFPS** and/or the **Aggregated Generating Unit** where such repair or maintenance cannot reasonably, in accordance with **Prudent Operating Practice/Prudent Utility Practice**, be deferred to a period of **Scheduled Outage / Planned Outage** or **Short Term Scheduled Outage /Planned Maintenance Outage**;

[Note: Please note that references to “Prudent Utility Practice”, “Scheduled Outage” and “Short Term Schedule Outage” will be made in the EirGrid Grid Code whereas references to “Prudent Operating Practice”, “Planned Outage” and “Planned Maintenance Outage” shall be made in the SONI Grid Code.]

- (d) necessary to avoid an imminent risk of injury to persons or material damage to property (including the **CDGU**, the **Controllable WFPS** and/or the **Aggregated Generating Unit**); or
- (e) it is not lawful for the **Generator** to operate the **CDGU**, the **Controllable WFPS** and/or the **Aggregated Generating Units**.

SDC1.4.3.4 Availability of Demand Side Units

Each **Dispatchable Demand Customer** shall use reasonable endeavours to ensure that it does not at any time declare the **Demand Reduction** and the **Demand Side Unit** characteristics of its **Demand Side Unit** at levels or values different from those that the **Demand Side Unit** could achieve at the relevant time, noting that no **Demand Side Unit** can export **Active Power** to the **NI System / Network**. The **TSO** can reject declarations to the extent that they do not meet these requirements.

[Note: Please note that reference to “NI System” will be made in the SONI Grid Code whereas reference to “Network” will be made in the EirGrid Grid Code.]

SDC1.4.3.5 SDC1.4.3.4 shall not apply to the extent:

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- (a) it would require the **Dispatchable Demand Customer** to declare levels or values better than **Registered Capacity** and **Technical Parameters** as submitted under the Planning Code in respect of a **Demand Side Unit**;
- (b) necessary during periods of **Scheduled Outage / Planned Outage** or **Short Term Scheduled Outage / Planned Maintenance Outage** or otherwise with the consent of the TSO;

[Note: Please note that “Scheduled Outage” and “Short Term Scheduled Outage” will be used in the EirGrid Grid Code and “Planned Outage” and “Planned Maintenance Outage” will be used in the SONI Grid Code.]

- (c) necessary while repairing or maintaining the **Demand Side Unit** or equipment necessary to the operation of the **Demand Side Unit** where such repair or maintenance cannot reasonably, in accordance with **Prudent Operating Practice/Prudent Utility Practice**, be deferred to a period of **Scheduled Outage / Planned Outage** or **Short Term Scheduled Outage / Planned Maintenance Outage**.

[Note: Please note that references to “Prudent Utility Practice”, “Scheduled Outage” and “Short Term Schedule Outage” will be made in the EirGrid Grid Code whereas references to “Prudent Operating Practice”, “Planned Outage” and “Planned Maintenance Outage” shall be made in the SONI Grid Code.]

- (d) necessary to avoid an imminent risk of injury to persons or material damage to property (including the **Demand Side Unit**);
- (e) it is not lawful for the **Dispatchable Demand Customer** to reduce its **Demand** or to operate its **Demand Side Unit**.

SDC1.4.3.6 Changes in Availability:

- (a) Increasing: If a **Generator**, a **Generator Aggregator** or a **Dispatchable Demand Customer** in respect of a **CDGU**, an **Aggregated Generating Unit**, a **Demand Side Unit** or **Pumped Storage Plant** in relation to **Demand**, issues an **Availability Notice** increasing (from zero or otherwise) the level of **Availability** or **Demand Reduction** from a specified time, such notice shall be construed as meaning that:
 - (i) in the case of a **CDGU** and/or **Aggregated Generating Unit**, the **CDGU** and/or **Aggregated Generating Unit** is capable of being synchronised to the **Transmission System** or **Distribution System** at that specified time or increasing its **MW Output** at that specified time as the case may be;
 - (ii) in the case of a **CDGU** which is an **Open Cycle Gas Turbine**, the **CDGU** is capable of being started at that specified time; or

(iii) in the case of a **Demand Side Unit**, the **Demand Side Unit** is capable of delivering subsequent Demand Reduction(s) at that specified time.

(b) If a **Generator** or, where relevant a **Generator Aggregator** in respect of a **Controllable WFPS**, issues an **Availability Notice** increasing (from zero or otherwise) or decreasing the level of **Availability** from a specified time, such notice shall be effective from the **Trading Period** following the specified time.

SDC1.4.3.7 Decreasing: When a **CDGU** and/or **Controllable WFPS** is **Synchronised** to the **System** the **Generator** may have occasion to issue an **Availability Notice** decreasing the level of **Availability** of the **CDGU** and/or **Controllable WFPS** from a specified time. Such notice shall be construed as meaning that the **CDGU** and/or **Controllable WFPS** is capable of maintaining **Load** at the level of the prevailing **Availability** until the time specified in the notice. Thereafter, the **CDGU** and/or **Controllable WFPS** shall be capable of maintaining **Load** to the level which would have been achieved if a **Dispatch Instruction** had been given to reduce the **Load**. This would have occurred with effect from the specified time, at the maximum **De-Loading Rate** and/or **Ramp-Down Rate** declared for the **CDGU** and/or **Controllable WFPS** as a **Technical Parameter** at such time down to the level of **Availability** specified in the new **Availability Notice**.

SDC1.4.3.8 If an **Interconnector Owner** in respect of an **Interconnector** issues an **Availability Notice** increasing (from zero or otherwise) or decreasing the level of **Availability** on the **Interconnector** as a whole from a specified time, such notice shall, subject to SDC1.4.5.1(a), be effective immediately following the specified time.

SDC1.4.4 **Technical and Commercial Data Requirements**

*Additional provisions in relation to **PPA Generation** are contained in Appendix B2, which supplement and/or replace the provisions in this section SDC1.4.4.*

[Note: This sentence applies to the SONI Grid Code only.]

SDC1.4.4.1 **Technical Parameters**

(a) (i) By not later than **Gate Closure**, each **User** shall in respect of each:

- **CDGU;**
- **Controllable WFPS;**
- **Aggregated Generating Unit,**
- **Pumped Storage Plant Demand;**
- **Interconnector;** and/or
- **Demand Side Unit,**

submit to the **TSO** a **Technical Parameters Notice** in such form as the **TSO** may reasonably notify to each **User** or in the form published on the **TSO** website from time to time,

containing the **Technical Parameters** to apply for the following **Trading Day**.

- (ii) A **User** may satisfy this obligation by submitting the data under the **TSC**, unless the **TSO** requires, by notice in writing to the **User**, the data to be submitted to it under the **Grid Code**.
 - (iii) If there is a change to the data submitted under the **TSC**, the **User** shall notify the **TSO**.
- (b) Flexibility:
- (i) In the case of any **Technical Parameters** as to which the **User** should, acting in accordance with **Prudent Operating Practice/Prudent Utility Practice**, have some flexibility either in the revision itself or in the time at which the revision is to take effect the **TSO** may, acting reasonably, suggest an amended data figure and/or an amended time at which the data figure is to take effect.
 - (ii) Insofar as it is able to do so without breaching any obligations regarding confidentiality contained either in the **TSO Licence** or in any agreement, the **TSO** shall notify the **User** of the reasons for such flexibility request in such degree of detail as the **TSO** considers reasonable in the circumstances.
 - (iii) If the **User** agrees to such suggestion (such agreement not to be unreasonably withheld) the **User** shall use reasonable endeavours to accommodate such suggestion and submit a revised **Technical Parameters Notice** accordingly. In any event, the **TSO** may require such further information on the revision as is reasonable and the **User** shall give the **TSO** such information as soon as reasonably practicable.

A **User** shall notify the **TSO** as soon as it becomes aware, acting in accordance with **Prudent Operating Practice/Prudent Utility Practice**, that any of the data submitted under SDC1.4.4.1 changes.

SDC1.4.4.2 **Additional Grid Code Characteristics Notice**

The following items are required to be submitted by each **User**, with the exception of **Aggregators**, direct to the **TSO**:

- (a) Individual **CCGT Module/CCGT Unit** data equivalent to the data required for a **CCGT Installation**. It shall also show any revisions to the **Technical Parameters** for each of the **CCGT Modules/CCGT Units** within it.

[Note: The term "CCGT Module" applies to the SONI Grid Code and the term "CCGT Unit" will apply to the EirGrid Grid Code.]

- (b) Different Fuels: In the case where a **CDGU** is capable of firing on different fuels, then the **Generator** shall submit an **Additional Grid**

Code Characteristics Notice in respect of any additional fuel for the **CDGU**, each containing the information set out in SDC1.4.4.1 above for each fuel and each marked clearly to indicate to which fuel it applies.

- (c) **Export Adjustment Factors** applied by the **User** in submitting data and to be applied by the **TSO** in issuing **Dispatch Instructions** and otherwise in calculations relating to instructions in relation to the relevant **Plant** and/or **Apparatus**, between the **Generator Terminals** and the **Connection Points**.
- (d) In the case of **Interconnector Owners**, **Interconnector** data, including but not limited to the **Availability** of **Interconnector Filters**.
- (e) In the case of an **Interconnector**, the **Maximum Import Capacity** and the **Maximum Export Capacity**.
- (f) In relation to each **Demand Side Unit**, the **Demand Profile** and the **Initial Demand Reduction Time**.
- (g) Where there is a **System Support Services Agreement / Ancillary Services Agreement** in place, the **System Support Services / Ancillary Services** which are **Available**.

[Note: Please note that the SONI Grid Code will be referring to System Support Services and the EirGrid Grid Code will be referring to Ancillary Services.]

- (h) The parameters listed in Appendix A Part 2 of SDC1.
- (i) **A Generator shall submit to the TSO the Operating Reserve capabilities for each category of Operating Reserve defined in OC4.6.3 for each of its CDGUs for each Trading Period.**

[Note: Please note that the above paragraph only applies to the EirGrid Grid Code only.]

A **User** shall notify the **TSO** as soon as it becomes aware, acting in accordance with **Prudent Operating Practice/Prudent Utility Practice**, that any of the data submitted under SDC1.4.4.2 changes.

SDC1.4.4.3 Reserve capability:

- (a) **A Generator or Generator Aggregator shall notify the TSO as soon as it becomes aware, acting in accordance with Prudent Operating Practice, if any of its CDGUs and/or Controllable WFPSs or Aggregated Generating Units (or associated Power Station Equipment) is unable to meet the reserve capability (as contained in a Sustained Load Diagram in the relevant System Support Services Agreement and submitted pursuant to the Planning Code ("PC")), whether that is due to a defect in the CDGU and/or Controllable WFPS and/or Aggregated Generating Units or in its associated Power Station Equipment submitted pursuant to the PC.**

Such notification shall be made by submitting a **Technical Parameters Notice** in relation to **Sustained Response Capability**. [Note: Clarify meaning] In accordance with the **Generator's** obligations under SDC1.4.3.2 and paragraphs 1 and 2 of Appendix B to this SDC1, such **Reserve Characteristics** may only be amended (without the **TSO's** consent) in the event of a defect in or failure of a **CDGU** and/or **Controllable WFPS** and/or **Aggregated Generating Units** or any associated **Power Station Equipment**.

- (b) A change following such notification will only take effect for so long as it takes, acting in accordance with **Prudent Operating Practice**, for the relevant **CDGU** and/or **Controllable WFPS** and/or **Aggregated Generating Units** or associated **Power Station Equipment** to be repaired and such repair shall re-instate the reserve capability to its previous level or to such other level as the **TSO** may, acting in accordance with **Prudent Operating Practice**, agree, taking into account the provisions of SDC1.4.4.4(a), and the **Generator** shall then submit a **Technical Parameters Notice** re-declaring the reserve capability accordingly. The **Generator** shall advise the **TSO** of the nature of any such defect or failure and of the **Generator's** best estimate, acting as a reasonable and prudent **Generator**, of the time it will take to effect the repair to restore the **Reserve Characteristics** to their former level.

[Note: Please note that the above paragraphs in italics only apply to the SONI Grid Code.]

SDC1.4.4.4 Other Relevant Data

- (a) By not later than **Gate Closure** each day, each **User** in respect of each of its **Plant**, shall in respect of the following **Trading Day** submit to the **TSO** in writing in the form set out on the **TSO** website or in such other form as the **TSO** may reasonably notify to each **User** from time to time), details in relation to the following **Trading Day** of any newly arisen special factors, including abnormal risk to loss, which in the reasonable opinion of the **User** may have a material effect on the likely **MW Output** or **Demand Reduction** of such **Plant** (including, for a **CCGT Installation** in relation to each of the **CCGT Modules/CCGT Units** therein). The notice shall be consistent with the **User's** obligations under SDC1.4.3.2. For the avoidance of doubts, the provisions of this paragraph also apply to **Interconnector Owners** in relation to their **Interconnector Filters**.

[Note: The term "CCGT Module" will apply to the SONI Grid Code and the term "CCGT Unit" will apply to the EirGrid Grid Code.]

- (b) Where a **CDGU** is capable of firing on different fuels, then the **Generator** shall submit details in respect of each fuel for the **CDGU**. Each set of details shall contain the information set out in (a) above for each fuel and each shall be marked clearly to indicate to which fuel it applies.

A **User** shall notify the **TSO** as soon as it becomes aware, acting in accordance with **Prudent Operating Practice/Prudent Utility Practice**, that any of the data submitted under SDC1.4.4.4 changes.

SDC1.4.4.5 **Commercial Offer Data**

- (a) Each:
- **Generator;**
 - **Pumped Storage Generator;**
 - **Interconnector User;**
 - **Dispatchable Demand Customer;** and
 - **Generator Aggregator,**

shall in respect of:

- each of its **CDGUs** and/or **Controllable WFPSs;**
- each of its **Pumped Storage Plant Demand;**
- each of its **Interconnector Units;**
- each of its **Demand Side Units;** and
- its **Aggregated Generating Units,**

submit to the **TSO**, either directly or by means of an **Intermediary** on its behalf, **Commercial Offer Data** by **Gate Closure** for the following **Trading Day** in accordance with the **TSC**.

- (b) Each **Generator** shall in respect of each of its **Energy Limited Generating Units** submit an **Energy Limit** as well as the **Commercial Offer Data** by **Gate Closure** for the following **Trading Day**.
- (c) Each **Pumped Storage Plant** will, with respect to its **Pumped Storage Plant Demand**, submit its **Target Reservoir Level** by **Gate Closure** for the following **Trading Day**.

The **TSO** may require, by notice to the relevant **User**, the data referred to at SDC1.4.4.5 (a) to (c) to be submitted to it directly under the **Grid Code**. All data items submitted under this SDC1.4.4.5 are to be at levels of **MW Output** at the **Connection Point**.

SDC1.4.5 **Revisions/Re-declarations to data**

SDC1.4.5.1 **Availability**

- (a) **Availability:** A **User** may, subject to SDC1.4.3 and as provided in this SDC1, make revisions to the **Availability Notice** submitted to the **TSO** under SDC1.4.1.1 at any time after submission of the **Availability Notice** in accordance with its obligations to make the **Unit Available** under SDC1.4.3 and *Appendix B to this SDC1* by submission by the **Electronic Interface** of a revised **Availability Notice** which shall be in the form set out on the **TSO** website or in such other form as the **TSO** may reasonably notify to each **User** from time to time. Revisions may not be made to an

Availability Notice submitted by an **Interconnector Owner** following **Gate Closure**.

- (b) In the event that the **TSO** submits a **Post Event Notice** under **OC11 / OC10** in relation to any part of the period covered by the **Availability Notice** at any time after submission of the **Availability Notice**, the **User** shall be deemed to have submitted a revised **Availability Notice** consistent with such **Post Event Notice**.

[Note: Please note that the SONI Grid Code will be referring to "OC11" whilst the EirGrid Grid Code will be referring to "OC10".]

- (c) The revisions to the **Availability Notice** may include revisions of the levels of **Availability** in the **CCGT Installation Matrix** reflecting the revised **Availability**.

[Note: Please note that once the amendments to the Grid Codes are finalised, each Grid Code will only make cross-references to its own sections.]

- (d) **Additional Availability Notice:** A **User** may, subject to SDC1.4.3 and to the provisions of this SDC1, make revisions to the **Additional Grid Code Availability Notice** submitted to the **TSO** under SDC1.4.2 at any time after the submission of the **Additional Grid Code Availability Notice** in accordance with its obligations to make the Unit **Available** under SDC1.4.3 *and Appendix B to this SDC1* by submission by the **Electronic Interface** of a revised **Additional Grid Code Availability Notice**. The Notice shall be in the form set out on the **TSO** website or in such other form as the **TSO** may reasonably notify each **User** from time to time.

[Note: The wording in italic will apply to the SONI Grid Code only.]

SDC1.4.5.2

Technical Parameters and Additional Grid Code Characteristics

- (a) **Technical Parameters:** If any of the data submitted to the **TSO** under SDC1.4.4.1, SDC1.4.4.3 and SDC1.4.4.4 changes, a **User** shall, subject to SDC1.4.3, (in the case of data submitted under SDC1.4.4.1 by means of a **Technical Parameters Notice**) make revisions to such data. The **User** shall notify the **TSO** of any revisions to any previously revised data by submitting by the **Electronic Interface** a revised **Technical Parameters Notice** in the form set out on the **TSO** website or in such other form as the **TSO** may reasonably notify to each **User** from time to time. The **User** must notify the **TSO** of any new **Other Relevant Data** of which it becomes aware at any time after any original submission, in writing.
- (b) **Additional Grid Code Characteristics:** A **User** may make revisions to the **Additional Grid Code Characteristics Notice** submitted to the **TSO** under SDC1.4.4.2 at any time after the submission of the **Additional Grid Code Characteristics Notice** by submitting by **Electronic Interface** a revised **Additional Grid Code Characteristics Notice**. The notice shall be in the form set out on the **TSO** website or in such other form as the **TSO** may reasonably notify to each **User** from time to time.

- (c) **Energy Limits for Hydro Units:** A **Generator** in respect of its **Hydro Units** shall resubmit **Energy Limits** on the **Trading Day** regardless of whether the **Energy Limits** have changed since **Gate Closure**. Revised **Energy Limits for Hydro Units** may be submitted at any time up until 18.00 hours on the **Trading Day** in writing per unit basis.

SDC1.4.5.3 The **TSO** shall, insofar as it is reasonably able, take account of such revisions or notifications submitted under SDC1.4.5 for **Scheduling** and **Dispatch** purposes.

SDC1.4.6 (a) Defaults:

- (i) Insofar as any data submitted or deemed to have been submitted on any particular day in any **Availability Notice**, **Technical Parameters Notice**, or notice of **Other Relevant Data** or any revision thereto is inconsistent with any other data in any other such notice, then the applicable data that is required to be submitted pursuant to the **TSC** and which is known as the **Standing Technical Offer Data**, and/or the most recently submitted **Additional Grid Code Availability Notice** and **Additional Grid Code Characteristics Notice** which, if substituted for the inconsistent data, would make the data in such notices consistent, shall apply for the next following **Trading Day**. In the case of an **Interconnector Owner**, failure to submit an **Availability Notice**, **Technical Parameters Notice** or notice of **Other Relevant Data** will result in the **TSO** assuming a value of zero.
- (ii) Insofar as an **Availability Notice** is not submitted, the **User** shall be deemed to have submitted an **Availability Notice** by **Gate Closure** stating that the **Availability** of the relevant **CDGU**, **Controllable WFPS**, **Demand Side Unit** and/or the **Aggregated Generating Units** for the whole of the following **Trading Day** will be the level of **Availability** and **Operating Mode** declared in respect of the final **Trading Period** of the current **Trading Day** *or any other values that the TSO may reasonably deem appropriate.*
- [Note: Please note that the words in italic apply to the EirGrid Grid Code only.]**
- (iii) Insofar as not submitted or revised, the applicable **Standing Technical Offer Data** for **Technical Parameters** shall apply for the next following **Trading Day**.
- (iv) Insofar as not submitted or revised, the last notice relating to **Other Relevant Data** to have been submitted shall apply for the next following **Trading Day**.
- (v) In respect of **Hydro Units**, the **Energy Limit** that applied to the previous **Trading Day** will be used.

- (b) As a general requirement, the **User** shall ensure that the data in any **Availability Notice, Technical Parameters Notice**, or notice of any **Other Relevant Data** or any revision thereto is consistent with its obligations under SDC1.4.3.2 and SDC1.4.3.4.

SDC1.4.7 Telephone Submission

- (a) Where this SDC1 requires a **User** to submit a notice, it may instead of submitting it in writing, submit the information required in such a notice (which information shall be supplied in full) by telephone subject to the **TSO's** prior consent (identifying unambiguously the type of notice which is thereby being submitted).
- (b) The individual who is giving the notice by telephone on behalf of the **User** shall firstly specify the time at which the notice is being given, then identify himself and ask the individual receiving the notice on behalf of the **TSO** also to identify himself. The information required by the notice shall then be given, including (without limitation) the identity of the **CDGU, Controllable WFPS, Aggregated Generating Unit, Pumped Storage Plant** and **Demand Side Unit** in question.
- (c) The notice shall then be confirmed by facsimile transmission or by any electronic means as agreed with the **TSO** as soon as possible thereafter (and in any event be sent to the **TSO** within 2 hours). Where a facsimile is so sent by way of confirmation, it shall state clearly that it is in confirmation of a notice already given by telephone and shall state the exact time at which the notice was given by telephone.

SDC1.4.8 Compilation of the Indicative Operations Schedule

SDC1.4.8.1 An **Indicative Operations Schedule** will be compiled daily by the **TSO** in conjunction with the **Other TSO** as further provided in this SDC1.4.8 as a statement of which **CDGUs** and/or **Controllable WFPS** and/or transfers across any **Interconnector** and/or **Demand Side Units** and/or **Pumped Storage Plant Demand** and/or **Aggregated Generating Units** may be required to operate and their expected **MW Output** for the next following **Trading Day**.

SDC1.4.8.2 Merit Order

Subject as provided below, a **Merit Order** will be compiled by the **TSO** (in conjunction with the **Other TSO**) for each **Trading Day** from the **Price Quantity Pairs, Start-Up Cost, Shutdown Cost** and **No-Load Cost** (which together shall be known as the "**Price Set**") and, subject as provided in this SDC1, used to determine which **CDGU, Controllable WFPS, Pumped Storage Plant Demand** tranche, **Demand Side Unit, Aggregated Generating Unit** or **Interconnector** tranche to **Schedule** and **Dispatch** in relation to their **Price Sets**. The **Merit Order** will be on the basis of ascending prices so that the **CDGU, Controllable WFPS, Pumped Storage Plant Demand** tranche, **Demand Side Unit, Aggregated Generating Unit Price Set** or **Interconnector** tranche **Price Set** at the head of the **Merit Order** will be that which has the lowest **Incremental Price** per **MWh**, and that at the foot of the **Merit Order** shall be the one with the highest **Incremental Price** per **MWh**. Each **CDGU, Controllable WFPS, Pumped Storage Plant Demand** tranche,

Demand Side Unit, Aggregated Generating Units and/or Interconnector tranche shall appear in the **Merit Order** for each **Price Set** submitted.

SDC1.4.8.3

In compiling the **Indicative Operations Schedule** in conjunction with the **Other TSO**, the **TSO** will take account of and give due weight to the following factors (and the equivalent factors on the **Other Transmission System** will be so treated separately by the **Other TSO**): *[See Viridian comment (32).]*

- (i) **Transmission System and Distribution System** constraints from time to time, as determined by the **TSO**; *[Note: The words in italic apply to the SONI Grid Code only.]*
- (ii) Reserve constraints from time to time, as determined by the **TSO**;
- (iii) the need to provide an **Operating Margin** (by using the various categories of reserve as specified in *OC3 /OC4.6 and CC7.3.1.1* (as the case may be), as determined by the **TSO** acting in conjunction with the **Other TSO**;

[Note: Please note that the SONI Grid Code will be referring to "OC3" whilst the EirGrid Grid Code will be referring to "OC4.6 and CC7.3.1.1".]
- (iv) **Transmission System** stability considerations;
- (v) the level of **MW Output** and availability covered by **Non Centrally Dispatched Generating Units**, by **Plant** subject to **Priority Dispatch** and by **Controllable WFPS**;
- (vi) the **Target Reservoir Levels** for **Pumped Storage** taken against the initial conditions at 0600 hours the previous day;
- (vii) the **Energy Limits** for **Hydro Units**;
- (viii) in respect of all **Plant**, the values of their **Technical Parameters** registered under this SDC1 and other information submitted under SDC1.4.4.4;
- (ix) the **Start-Up Cost** of each **CDGU** and/or **Controllable WFPS** and the **Shutdown Cost** of each **Demand Side Unit**;
- (x) the requirements, as determined by the **TSO**, for **Voltage Control** and **Mvar** reserves;
- (xi) **CDGU** and/or **Controllable WFPS** stability, as determined by the **TSO**;
- (xii) other matters to enable the **TSO** to meet its **Licence Standards** and the **Other TSO** to meet its equivalent;
- (xiii) the requirements as determined by the **TSO**, for maintaining **Frequency Control**;

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- (xiv) **Monitoring** and/or **Testing** and/or **Investigations** to be carried out, or being carried out, under **OC11/OC10** (as the case may be), Testing to be carried out, or being carried out, at the request of a User under **OC11.8 / OC8** and/or **Commissioning/Acceptance Testing** under the CC;

[Note: Please note that the SONI Grid Code will be referring to “OC11” and “OC11.8” whilst the EirGrid Grid Code will be referring to “OC10” and “OC8”.]

[Note: Please note that the word “Acceptance” applies to the SONI Grid Code only.]

- (xv) **System Tests, Operational Tests and Commissioning Tests;**

[Note: Please note that the words in italics apply to the EirGrid Grid Code only.]

- (xvi) the inability of any **CDGU** and/or **Controllable WFPS** to meet its full reserve capability;

- (xvii) **Inter-jurisdictional Tie Line** limits;

- (xviii) other facts as may be reasonably considered by the **TSO** to be relevant to the **Indicative Operations Schedule**;

- (xix) the inflexible characteristics as declared by the **Generator** and abnormal risks;

- (xx) losses on the **Transmission System** and on the **Other Transmission System**;

- (xxi) **Nomination Profiles** where relevant;

- (xxii) requirements within any **Constrained Group**;

- (xxiii) the position of the **Interconnector** tranches in the unconstrained **Indicative Market Schedule**;

[Note: Please note that the Schedule referred to above will be fixed, meaning that it cannot change after Gate Closure.]

- (xxiv) *in the case of PPA CDGUs any "take or pay" contract for the purchase of fuel to which such a Generator is a party and the terms of which have been agreed by NIE Energy and notified to the TSO and which impact on NIE Energy and/or the terms of any other contract to which NIE Energy is a party and which may, in its opinion, be relevant and which is notified to the TSO.*

[Note: Please note that the above paragraph applies to the SONI Grid Code only.]

[Note: Please note that consideration is being given to adding a provision stating that the TSO would also take into account Gas management issues when preparing the IOS.]

SDC1.4.8.4 Taking account of and applying the factors referred to in SDC1.4.8.3, the **Indicative Operations Schedule** shall be compiled by the **TSO** in conjunction with the **Other TSO** to **Schedule** such **CDGUs, Controllable WFPS, Pumped Storage Plant Demand** tranches, **Demand Side Units, Aggregated Generating Units** and/or such **Interconnector** tranches which have been declared **Available** in an **Availability Notice** (and the equivalents on the **Other Transmission System**):

- (i) in accordance with the **Merit Order**, starting with the **CDGU, Controllable WFPS, Pumped Storage Plant Demand, Demand Side Units, Aggregated Generating Unit**, and/or such **Interconnector** tranche **Price Set** at the head of the **Merit Order**;
- (ii) as will in aggregate (after taking into account electricity delivered other than from **CDGUs, Controllable WFPSs, Aggregated Generating Units**, and/or **Interconnector** tranches and variation in **Demand** from **Pumped Storage Plant Demand** and **Demand Side Units**) be sufficient to match at all times (to the extent possible having regard to the **Availability** or **Demand Reduction** of **CDGUs, Controllable WFPSs, Pumped Storage Plant Demand** tranches, **Demand Side Units, Aggregated Generating Units** and **Interconnector** tranches) the forecast aggregated **Demand** (derived under OC1 of the **Grid Code** and the **Other Grid Code**) together with such margin of reserve as the **TSO** working in conjunction with the **Other TSO** shall consider to be appropriate; and
- (iii) as will in aggregate be sufficient to match minimum forecast **Demand** levels together with a sufficient **Minimum Demand Regulation**.

The taking account of and application of the factors in SDC1.4.8.3 will mean that, in general, the strict **Merit Order** may not necessarily be followed.

SDC1.4.8.5 After the completion of the **Scheduling** process, but before the issue of **Indicative Operations Schedule**, the **TSO** may consider it necessary to make adjustments to the **MW Output** as determined by the **Scheduling** process. Such adjustments could be made necessary by any of the following factors (and the equivalent factors on the **Other Transmission System** which will be so dealt with separately by the **Other TSO**):

- (a) changes to **Availability** or **Demand Reduction** and/or **Technical Parameters** of **CDGUs** and/or **Controllable WFPS** and/or **Aggregated Generating Units** and/or **Demand Side Units** notified to the **TSO** after the commencement of the **Scheduling** process;
- (b) changes to **Demand** forecasts on the Island of Ireland;
- (c) changes to wind power forecasts on the Island of Ireland;

- (d) changes to **Transmission System** and **Distribution System** constraints, emerging from the necessarily iterative process of **Scheduling** and network security assessment;

[Note: Please note that the words in italic apply to the SONI Grid Code only.]

- (e) changes to **CDGU** and/or **Controllable WFPS** requirements following notification to the **TSO** of the changes in capability of a **Generator** to provide a **Special Action** as described in SDC2;
- (f) changes to **CDGU** and/or **Controllable WFPS** requirements within **Constrained Groups**, following re-appraisal of **System Demand** forecasts on the Island of Ireland within that **Constrained Group**;
- (g) changes to any conditions which in the reasonable opinion of the **TSO**, would impose increased risk to the **Transmission System** and would therefore require an increase in the **Operating Margin**;
- (h) known (or emerging) limitations and/or deficiencies of the **Scheduling** process.

SDC1.4.8.6 When:

- (a) adverse weather is anticipated;
- (b) there is a high risk to the whole or part of the **Transmission System** and/or the **Other Transmission System**;
- (c) **Demand Control** has been instructed by the **TSO**; or
- (d) a **Total** or **Partial Shutdown** exists;

these factors may mean that a **CDGU**, **Controllable WFPS**, **Pumped Storage Plant Demand**, **Demand Side Unit**, **Aggregated Generating Unit** and/or **Interconnector** tranche is/are chosen other than in accordance with the **Merit Order** to a greater degree than would be the case when merely taking into account and giving due weight to the factors listed in SDC1.4.8.3 in order to seek to maintain the integrity of the **Transmission System**.

- (a) The **Synchronising** and **De-Synchronising** times (and, in the case of **Pumped Storage Plant Demand**, the relevant effective time) shown in the **Indicative Operations Schedule** are indicative only and it should be borne in mind by **Users** that the **Dispatch Instructions** could reflect more or different **CDGU**, **Aggregated Generating Unit** and/or **Controllable WFPS**, **Pumped Storage Plant Demand** and/or **Aggregate Generating Unit** requirements than in the **Indicative Operations Schedule**. The **TSO** may issue **Dispatch Instructions** in respect of any **CDGU** and/or **Aggregated Generating Unit**, **Controllable WFPS**, **Pumped Storage Plant Demand** tranche or **Aggregated Generating Unit** which has not declared an **Availability** or **Demand Reduction** of 0 MW in an **Availability Notice**. **Users** with **CDGUs** and/or **Aggregated Generating Units**, **Controllable WFPS**,

Pumped Storage Plant Demand tranche shall ensure that their units are able to be **Synchronised**, or in the case of **Pumped Storage Plant Demand**, used at the times **Scheduled**, but only if so **Dispatched** by the **TSO** by issue of a **Dispatch Instruction**. **Users** shall, as part of a revision to the **Technical Parameters**, indicate to the **TSO** the latest time at which a **Dispatch Instruction** is required to meet the scheduled **Synchronising** time or in the case of **Pumped Storage Plant Demand**, the **Scheduled** relevant effective time.

- (b) The provisions of SDC1.4.8.7(a) shall apply to **Demand Side Units** with the exception that reference to relevant effective time shall be read as a reference to **Initial Demand Reduction Time**.

SDC1.4.8.8 Content of Indicative Operations Schedule

The information contained in the **Indicative Operations Schedule** will indicate, where appropriate, on an individual **CDGU**, **Controllable WFPS**, **Pumped Storage Plant Demand**, **Demand Side Unit** and/or **Aggregated Generating Units** basis, the period and **Loading** for which it is **Scheduled** during the following **Trading Day**. In the case of a **CDGU** which is capable of firing on two different fuels, it will also indicate the fuel for which it is **Scheduled** during the following **Trading Day**. If no fuel is contained in the **Indicative Operations Schedule**, then the most recently specified fuel shall be treated as having been indicated.

SDC1.4.8.9 Issue of Indicative Operations Schedule

- (a) The **Indicative Operations Schedule** will be published for access by **Users** by 1600 hours each day preceding the relevant **Trading Day**, provided that all the necessary information from the **Users** was made available by not later than **Gate Closure**. However, if on any occasion the **TSO** is unable to meet this time, the **TSO** also reserves the right to extend the timescale for the issue of the first **Indicative Operations Schedule** to the extent necessary. Following the issue of the **Indicative Operations Schedule**, the **TSO** may issue revised **Indicative Operations Schedules** up until one hour before the start of the **Trading Day**.
- (b) The **TSO** may issue **Dispatch Instructions** to **Users** in respect of **CDGUs**, **Controllable WFPSs**, **Pumped Storage Plant Demand** and/or **Demand Side Units** and/or **Aggregated Generating Units** and/or **Interconnector** tranches before the issue of the **Indicative Operations Schedule** for the **Trading Day** to which the **Dispatch** instruction relates if the length of **Notice to Synchronise** the relevant **CDGUs** and/or **Controllable WFPSs**, **Pumped Storage Plant Demand** and/or **Demand Side Unit** and/or **Aggregated Generating Unit** requires the **Dispatch** instruction to be given at that time. When the length of the time required for **Notice to Synchronise** is within 30 minutes of causing the **CDGU** and/or **Controllable WFPSs** and/or **Pumped Storage Plant Demand** to be unable to meet the indicative **Synchronising** time in the **Indicative Operations Schedule** or a subsequent indicative **Synchronising** time and no **Dispatch Instruction** has been received, the **Generator** shall inform the **TSO** without delay.

SDC1.4.8.10 Regulation

It is a requirement for running the **Transmission System** that all **Synchronised CDGUs** and/or **Controllable WFPs** shall at all times be capable of reducing **MW Output** sufficient to allow a sufficient **Regulating Margin** for adequate **Frequency Control**. The **TSO** will monitor the **MW Output** data of the **Indicative Operations Schedule** against forecast of **System Demand** on the Island of Ireland to see whether the level of regulation for any period is insufficient, and may take any shortfall into account in **Scheduling** and **Dispatch**.

SDC1.4.8.11 Data Requirements

SDC1 Appendix A Part 1 sets out the **Technical Parameters** for which values are to be supplied by a **User** in respect of each of its **CDGUs** and/or **Controllable WFPs** and/or **Pumped Storage Plant Demand** and/or **Demand Side Units** and/or **Aggregated Generating Units** by not later than **Gate Closure** on the day prior to the **Trading Day**.

SDC1 Appendix A Part 2 sets out the additional data items required in respect of an **Additional Grid Code Characteristics Notice**.

SDC1 – APPENDIX A

Part 1. Technical Parameters

[Note: Consideration is being given as to whether the new format has an impact on the SONI DRC section.]

| Technical Parameter | CDGU | | | | Control WFPS | DSU | | Agg. Gen | Autonomous Gen | Pump S Demand |
|-------------------------------------|---------|------------|------------|------------|--------------|------------------------|-------------------------|----------|----------------|---------------|
| | Thermal | Hyd/En Ltd | Disp. WFPS | Pump S Gen | | Individual Demand Site | Aggregated Demand Sites | | | |
| Block Load Cold | ü | ü | ü | ü | ü | | | | | |
| Block Load Hot | ü | ü | ü | ü | ü | | | | | |
| Block Load Warm | ü | ü | ü | ü | ü | | | | | |
| Demand Profile | | | | | | ü | ü | | | |
| Deload Break Point | ü | ü | ü | ü | ü | | | | | |
| De-Loading Rate 1 | ü | ü | ü | ü | ü | | | | | |
| De-Loading Rate 2 | ü | ü | ü | ü | ü | | | | | |
| Dwell Time 1 | ü | ü | ü | ü | ü | | | | | |
| Dwell Time 2 | ü | ü | ü | ü | ü | | | | | |
| Dwell Time 3 | ü | ü | ü | ü | ü | | | | | |
| Dwell Time Trigger Point 1 | ü | ü | ü | ü | ü | | | | | |
| Dwell Time Trigger Point 2 | ü | ü | ü | ü | ü | | | | | |
| Dwell Time Trigger Point 3 | ü | ü | ü | ü | ü | | | | | |
| End Point of Start Up Period | ü | ü | ü | ü | ü | | | | | |
| Energy Limit | | ü | | | | | | | | |
| Energy Limit Factor | | ü | | | | | | | | |
| Energy Limit Start | | ü | | | | | | | | |
| Energy Limit Stop | | ü | | | | | | | | |
| Forecast Minimum Output Profile | | | | ü | | | | | | ü |
| Forecast Minimum Generation Profile | ü | ü | ü | ü | | ü | ü | | | |
| Initial Demand Reduction Time | ü | ü | ü | ü | ü | ü | ü | | | |
| Load Up Break Point Cold (1) | ü | ü | ü | ü | ü | | | | | |
| Load Up Break Point Cold (2) | ü | ü | ü | ü | ü | | | | | |
| Load Up Break Point Hot (1) | ü | ü | ü | ü | ü | | | | | |
| Load Up Break Point Hot (2) | ü | ü | ü | ü | ü | | | | | |
| Load Up Break Point Warm (1) | ü | ü | ü | ü | ü | | | | | |

| Technical Parameter | CDGU | | | | Control WFPS | DSU | | Agg. Gen | Autonomous Gen | Pump S Demand |
|--|---------|------------|------------|------------|--------------|------------------------|------------------------|----------|----------------|---------------|
| | Thermal | Hyd/En Ltd | Disp. WFPS | Pump S Gen | | Individual Demand Site | Aggregate Demand Sites | | | |
| Load Up Break Point Warm (2) | ü | ü | ü | ü | ü | | | | | |
| Loading Rate Cold (1) | ü | ü | ü | ü | ü | | | | | |
| Loading Rate Cold (2) | ü | ü | ü | ü | ü | | | | | |
| Loading Rate Cold (3) | ü | ü | ü | ü | ü | | | | | |
| Loading Rate Hot (1) | ü | ü | ü | ü | ü | | | | | |
| Loading Rate Hot (2) | ü | ü | ü | ü | ü | | | | | |
| Loading Rate Hot (3) | ü | ü | ü | ü | ü | | | | | |
| Loading Rate Warm (1) | ü | ü | ü | ü | ü | | | | | |
| Loading Rate Warm (2) | ü | ü | ü | ü | ü | | | | | |
| Loading Rate Warm (3) | ü | ü | ü | ü | ü | | | | | |
| Max Ramp Down Rate (shall be a number greater than zero) | | | | | | ü | ü | | | |
| Max Ramp Up Rate (shall be a number greater than zero) | | | | | | ü | ü | | | |
| Maximum Down Time | | | | | | ü | ü | | | |
| Maximum Generation | | | | | | | | | | |
| Maximum On Time | ü | ü | ü | ü | ü | | | | | |
| Maximum Storage Capacity | | | | ü | | | | | | |
| Minimum Down Time | | | | | | ü | ü | | | |
| Minimum Generation | ü | ü | ü | ü | ü | | | | | |
| Minimum off time | ü | ü | ü | ü | ü | | | | | |
| Minimum on time | ü | ü | ü | ü | ü | | | | | |
| Minimum Storage Capacity | | | | ü | | | | | | ü |
| (Other relevant technical parameters) | ü | ü | ü | ü | ü | | | ü | | |
| Pumping capacity | | | | ü | | | | | | ü |
| Ramp Down Break Point 1 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Down Break Point 2 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Down Break Point 3 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Down Break Point 4 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Down Rate 1 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Down Rate 2 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Down Rate 3 | | ü | ü | ü | ü | | | ü | | |
| Ramp Down Rate 4 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Down Rate 5 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Up Break Point 1 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Up Break Point 2 | ü | ü | ü | ü | ü | | | ü | | |

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| Technical Parameter | CDGU | | | | Control WFPS | DSU | | Agg. Gen | Autonomous Gen | Pump S Demand |
|------------------------------------|---------|------------|------------|------------|--------------|------------------------|------------------------|----------|----------------|---------------|
| | Thermal | Hyd/En Ltd | Disp. WFPS | Pump S Gen | | Individual Demand Site | Aggregate Demand Sites | | | |
| Ramp Up Break Point 3 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Up Break Point 4 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Up Rate 1 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Up Rate 2 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Up Rate 3 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Up Rate 4 | ü | ü | ü | ü | ü | | | ü | | |
| Ramp Up Rate 5 | ü | ü | ü | ü | ü | | | ü | | |
| Short Term Maximisation Capability | ü | ü | ü | ü | ü | | | | | |
| Soak Time Cold (1) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Cold (2) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Hot (1) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Hot (2) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Trigger Point Cold (1) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Trigger Point Cold (2) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Trigger Point Hot (1) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Trigger Point Hot (2) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Trigger Point Warm (1) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Trigger Point Warm (2) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Warm (1) | ü | ü | ü | ü | ü | | | | | |
| Soak Time Warm (2) | ü | ü | ü | ü | ü | | | | | |
| Synchronous Start-Up Time Cold | ü | ü | ü | ü | ü | | | | | |
| Synchronous Start-Up Time Hot | ü | ü | ü | ü | ü | | | | | |
| Synchronous Start-Up Time Warm | ü | ü | ü | ü | ü | | | | | |
| Target Reservoir Level Percentage | | | | ü | | | | | | ü |
| Start of Restricted Range 1 | ü | ü | ü | ü | ü | | | | | |
| End of Restricted Range 1 | ü | ü | ü | ü | ü | | | | | |
| Start of Restricted Range 2 | ü | ü | ü | ü | ü | | | | | |
| End of Restricted Range 2 | ü | ü | ü | ü | ü | | | | | |

[Note: Consideration is being given to including a list of joint Additional Grid Code

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characteristics required.]

[Part 2. Additional data items required in an Additional Grid Code Characteristics Notice]

[Note: Please note that this part of the Appendix applies to the SONI Grid Code only.]

| Variable | Applies to |
|---|---|
| Time from initiation of a start to achieving Dispatched Load | CDGUs which are Open Cycle Gas Turbines or CCGTs |
| Governor Droop | All CDGUs, except Aggregated Generating Units |
| Sustained Response Capability | All CDGUs, except Aggregated Generating Units |
| Two shifting limitation (limitation on the number of Start-ups per Trading Day) | All CDGUs, except Aggregated Generating Units |
| The MW and Mvar capability limits within which the CDGU is able to operate as shown in the relevant [Generator Performance Chart] | All CDGUs, except Aggregated Generating Units |
| [Note: Consider whether this chart is need in SDC1. If so, need to consider a definition for this term.] | |
| Maximum number of on Load cycles per 24 hour period, together with the maximum Load increases involved | All CDGUs, except Aggregated Generating Units |
| ^Maximum number of changes to the Dispatched Fuel per 24 hour period | All CDGUs, except Aggregated Generating Units |
| Maximum quantity of oil in “ready-use tanks” and associated pipework | All CDGUs, except Aggregated Generating Units |
| ^Maximum number of changes to the Designated Fuel per 24 hour period | All CDGUs, except Aggregated Generating Units |
| ^Minimum notice to change the Designated Fuel. | All CDGUs, except Aggregated Generating Units |
| Settings of the Unit Load Controller for each CDGU for which a Unit Load Controller is required under CCS1.5.5 of the SONI Grid Code | All CDGUs, except Aggregated Generating Units |
| Declared Maximisation Capacity | All CDGUs, except Aggregated Generating Units |
| Time between De-Synchronising different CDGUs in a Power Station which, in the case of Coolkeeragh Power Station only, shall be stated for both paired and single CDGUs. | All CDGUs, except Aggregated Generating Units |

[Part 2. Additional data items required in an Additional Grid Code Characteristics Notice]

[Note: Please note that this part of the Appendix applies to the EirGrid Grid Code only.]

Table (i)

| Variable | Applies to |
|---|--|
| Declared POR | CDGUs, excluding Dispatchable WFPSs |
| Declared SOR | CDGUs, excluding Dispatchable WFPSs |
| Declared TOR1 | CDGUs, excluding Dispatchable WFPSs |
| Declared TOR2 | CDGUs, excluding Dispatchable WFPSs |
| Declared Replacement Reserve | CDGUs, excluding Dispatchable WFPSs |
| Minimum MW for POR | CDGUs, excluding Dispatchable WFPSs |
| Minimum MW for SOR | CDGUs, excluding Dispatchable WFPSs |
| Minimum MW for TOR1 | CDGUs, excluding Dispatchable WFPSs |
| Minimum MW for TOR2 | CDGUs, excluding Dispatchable WFPSs |
| Minimum MW for Replacement Reserve | CDGUs, excluding Dispatchable WFPSs |
| POR Decrement Rate | CDGUs, excluding Dispatchable WFPSs |
| SOR Decrement Rate | CDGUs, excluding Dispatchable WFPSs |
| TOR1 Decrement Rate | CDGUs, excluding Dispatchable WFPSs |
| TOR2 Decrement Rate | CDGUs, excluding Dispatchable WFPSs |
| Replacement Reserve Decrement Rate | CDGUs, excluding Dispatchable WFPSs |
| Governor Droop | CDGUs, excluding Dispatchable WFPSs |

Table (ii)

| | |
|--|--|
| Black Start Capability (yes/no) | CDGUs, excluding Dispatchable WFPSs |
| Declared Reactive Power (Consumption) | CDGUs, excluding Dispatchable WFPSs |
| Declared Reactive Power (Production) | CDGUs, excluding Dispatchable WFPSs |
| Correction Factor (Mvar consumption) | CDGUs, excluding Dispatchable WFPSs |
| Correction Factor (Mvar Production) | CDGUs, excluding Dispatchable WFPSs |
| Export Adjustment Factor 1 | CDGUs, excluding Dispatchable WFPSs |
| Export Adjustment Factor 2 | CDGUs, excluding Dispatchable WFPSs |
| Unit Loss Factor | CDGUs, excluding Dispatchable WFPSs |

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SDC1 - APPENDIX B

[Note: Please note that this appendix applies to the SONI Grid Code only.]

SDC1.B.1 The following paragraphs apply in relation to **PPA Generation** in place of SDC1.4.3.1 to SDC1.4.3.3.

SDC1.B.1.1 In relation to **PPA Generation**, each **Generator** shall subject always to the terms and conditions of any applicable **Generating Unit Agreement** throughout the term of the **Generating Unit Agreement** relating to a particular **PPA CDGU**, maintain, repair, operate and fuel the **CDGU** as required by **Prudent Operating Practice** and any legal requirements with a view to providing the **Contracted Capacity** and the **Contracted GSDPs**, provided that in determining when so to maintain or repair the **CDGU**, the **Generator** may have regard to the amount of **Availability Payments** (including reductions in and rebates of **Availability Payments**) which may at any time be earned (or suffered) by it under the relevant **Generating Unit Agreement** and to its obligations under clause 5.1 of the relevant **Power Station Agreement**.

SDC1.B.1.2 In relation to **PPA Generation**, the **Generator** shall use reasonable endeavours to ensure that it does not at any time declare by issuing or allowing to remain outstanding an **Availability Notice**, or a **Technical Parameters Notice** which declares the **Availability** or **Technical Parameters** of the **CDGU**, (including, in the case of a **CCGT Installation**, its **Operating Mode**) at levels or values different from those that the **PPA CDGU** could achieve at the relevant time except:-

(a) during periods of **Planned Outage** or **Short Term Planned Maintenance Outage** or otherwise with the consent of the **TSO**;

(b) while repairing or maintaining the **PPA CDGU** or equipment necessary to the operation of the **PPA CDGU** where such repair or maintenance cannot reasonably, in accordance with **Prudent Operating Practice**, be deferred to a period of **Planned Outage** or **Short Term Planned Maintenance Outage**;

(c) where necessary to avoid an imminent risk of injury to persons or material damage to property (including the **PPA CDGU**);

(d) if it is not lawful for the **Generator** to operate the **PPA CDGU**; or

(e) to the extent that the **Generator** is affected by **Force Majeure** under the **Generating Unit Agreement**;

provided that nothing in the **Grid Code** shall require the **Generator** to declare levels or values better than **Contracted Capacity** and **Contracted GSDPs** in respect of a **PPA CDGU**.

SDC1.B.1.3 The **Generator** shall provide the **TSO** with all information necessary to enable the **TSO** to implement and apply the above provisions.

SDC1.B.2 The following paragraphs apply in relation to **PPA Generation** at Kilroot power Station in addition to the other provisions of this SDC1.

SDC1.B.2.1 In relation to any steam turbine **PPA CDGU** at Kilroot Power Station, the **TSO** may, in respect of any **Trading Period** (and/or successive **Trading Periods**) give notice (an "**Overburn Notice**") to the relevant **Generator** with as much notice as possible and in any event (except in the circumstances specified in (iii) below) not less than 24 hours before the start of such **Trading Period** (or the first such period) with the following effect and subject as follows:

(i) the **Contracted Capacity** (Coal) shall thereby be increased to **Overburn Contracted Capacity** in respect of such **Trading Period** (or periods) following which the **Generator** shall redeclare the **Availability** of the **CDGU** in an **Availability Notice** (and, for the avoidance of doubt, such increase shall only apply for the **Trading Periods** specified in the **Overburn Notice**);

(ii) the aggregate number of **Trading Periods** in any period of 24 hours and in any period of 12 months for which **Overburn Notices** may be given shall be no greater than the limits set out in paragraph 3 of schedule 1 to the relevant **Generating Unit Agreement**;

(iii) The **TSO** will procure that **NIE** will waive the rebate of **Availability Payments** for late declaration of **Availability** under paragraph 13.2 of schedule 2 to the relevant **Generating Unit Agreement** if the **Overburn Notice** is issued by the **TSO** less than 24 hours in advance of the start of the relevant **Trading Period**.

SDC1.B.3 References to fuel

The following paragraphs apply in relation to **PPA Generation** and the interpretation of this SDC1.

SDC1.B.3.1 References to "fuel" at SDC1.4.2.1, SDC1.4.4.2 and SDC1.4.4.4(b) shall be read as references to "**Designated Fuel**".

SDC1.B.3.2 The final two sentences of SDC1.4.8.8 shall be read as follows.:

In the case of a **CDGU** which is capable of firing on two different **Designated Fuels**, it will also indicate the **Designated Fuel** for which it is scheduled during the following **Trading Day**. If no **Declared Fuel** and/or, where relevant **Designated Fuel** is contained in the **Indicative Operations Schedule**, then the most recently specified **Declared Fuel** and/or, where relevant, **Designated Fuel** shall be treated as having been indicated.

SDC1.B.3.3 References to the **Price Set** in SDC1.4.8.2 shall be construed as in relation to each **Designated Fuel** or **Declared Fuel**, as the case may be.

SDC1.B.4 GSDPs

SDC1.B.4.1 The following paragraph applies in relation to **PPA Generation** in addition to (and in place of) the equivalent provisions of SDC 1.4.4.3.(a).

SDC1.B.4.2 A **Generator** must notify the **TSO** as soon as it becomes aware, acting in accordance with **Prudent Operating Practice** if (whether due to a defect in the **CDGU** or in its associated **Power Station Equipment**) any of its **CDGUs** is unable to meet the **Spinning Reserve Capability** set out in the **Sustained Load Diagram**

attached to Schedule 8 of the relevant **Generating Unit Agreement** and submitted pursuant to the PC.

SDC1.B.4.3 In SDC1.4.4.3(a) and (b) the term “**reserve capability**” shall be construed as “**Spinning Reserve Capability**”.

SDC1.B.4.4 In relation to **PPA Generation** the **User** shall provide in the **Technical Parameters Notice** any revisions to the **GSDPs** compared to the **Contracted GSDPs**.

SDC1.B.5 **Metering**

SDC1.B.5.1 Save as provided in the relevant **Power Station Agreement** or **Generating Unit Agreement**, no financial adjustment shall be made to any payment to be made in respect of a day under a **Power Station Agreement** or **Generating Unit Agreement** as a result of identifying any **Metering** discrepancy in respect of such day unless a dispute is raised in respect of such discrepancy prior to the expiry of the fourteenth **Business Day** following receipt by the **Interested User** of the **Confirmation Statement** in respect of such day or the **Meter Reconciliation Statement** which identifies such discrepancy.

ANNEX I

Explanatory Note of differences between SDC1 in the SONI Grid Code and EirGrid Grid Code

[Note: Please note that this annex is an explanatory note only and does not form part of the Grid Code. The layout of this explanatory note and the need to provide a narrative for the reason for the differences are being considered further.]

1. General Differences in wording

The table below summarises the general differences in wording between the form of SDC1 in the SONI Grid Code and the form of SDC1 in the EirGrid Grid Code, which appear repeatedly throughout SDC1.

| Terms used in SONI Grid Code | Equivalent terms used in EirGrid Grid Code (where different) | Reason |
|-------------------------------------|---|--|
| System Support Services | Ancillary Service(s) | The existing arrangements for Ancillary Services and System Support Services are continuing until further notice. |
| System Support Services Agreement | Ancillary Service(s) Agreement | These agreements will continue to stay in place with their existing names |
| CCGT Module | CCGT Unit | This is the phrase currently used to describe the individual parts of a Combined Cycle Plant CCGT Module is an important concept in Northern Ireland and is reflected in many other agreements. EirGrid is keeping the phrase CCGT Unit, as it more closely describes the concept of an individual unit and EirGrid has formerly used CCGT Module to describe the whole CCGT Installation. |
| Prudent Operating Practice | Prudent Utility Practice | Each Code uses a different phrase for this concept. |
| Planned Outage | Schedule Outage | Each Code uses a different phrase for this concept. |
| Planned Maintenance Outage | Short Term Scheduled Outage | Each Code uses a different phrase for this concept. |

2. Specific differences in wording between equivalent provisions in both Grid Codes

The table below provides a list of the other specific differences in wording between equivalent provisions of SDC1 in both Grid Codes.

| Provision | SONI Grid Code | EirGrid Grid Code | Reason |
|------------------|---------------------------------|--|--|
| SDC1.4.2.2(b) | Reference is made to "PCA2.3.4" | Reference is made to "PCA.4.3 of the Planning Code Appendix" | These are the respective requirements for the provision of |

| | | | |
|-----------------|--|---|--|
| | | | the CCGT Installation data. |
| SDC1.4.3.4 | Reference is made to "NI System" | Reference is made to "Network" | NI System refers to both the NI Transmission System and NI Distribution System and Network refers to the Ireland Transmission System and Distribution System |
| SDC1.4.5.1(b) | Reference is made to "OC11" | Reference is made to "OC10" | These are the respective requirements for Testing Monitoring and Investigation |
| SDC1.4.5.1(d) | Reference is made to a User acting in accordance with its obligations under "SDC1.4.3 and Appendix B to this SDC1" | Reference is made to a User acting in accordance with its obligations under "SDC1.4.3" only | SONI has separate requirements for Availability and Technical Parameter related issues in respect of PPA Generation. |
| SDC1.4.6(a)(ii) | | The EirGrid Grid Code contains the following additional words at the end of the paragraph: <i>"or any other values that the TSO may reasonably deem appropriate"</i> | Difference is due to different requirements in both jurisdictions. |
| SDC1.4.8.3(i) | Reference is made to the "Transmission System and Distribution System constraints" | Reference is made to the "Transmission System constraints" only. | EirGrid will not be in a position to take Distribution Constraints into account in determining the IOS. |
| SDC1.4.8.3(iii) | Reference is made to "OC3" | Reference is made to "OC4.6 and CC7.3.1.1" | These are the respective references to Operating Margin. |
| SDC1.4.8.3(xiv) | Reference is made to "OC11" and then to "OC11.8" | Reference is made to "OC10" and then to "OC8" | These are the respective references to Testing Monitoring and |

| | | | |
|------------------------|--|--|--|
| | | | Investigation and Operational Testing. |
| SDC1.4.8.3(xiv) | Reference is made to "Commissioning/Acceptance Testing" | Reference is made to "Commissioning/Testing" | These are the respective terms used in each Grid Code |
| SDC1.4.8.3(xv) | Reference is made to "System Tests" only | Reference is made to "System Tests, Operational Tests and Commissioning Tests" | The EirGrid Grid Code definition of System Tests excludes Operational and Commissioning Tests whereas the SONI definition includes them. |
| SDC1.4.8.5(d) | Reference is made to the "Transmission System and Distribution System constraints" | Reference is made to the "Transmission System constraints" only. | EirGrid will not be in a position to take Distribution Constraints into account in determining the IOS. |
| SDC1 Appendix A Part 2 | Part 2 refers to factors applicable to the SONI Grid Code only | Part 2 refers to factors applicable to the EirGrid Grid Code only | The two System Operators require some data items specific to that system and they are detailed here. |

3. Provisions applicable to one Grid Code only

The table below provides a list of the provisions of SDC1 which exist in one Grid Code only.

| Provisions used in SONI Grid Code only | Reason |
|---|--|
| SDC1.1.4 | SONI has extra requirements due to the presence of PPA Generation in Northern Ireland. |
| SDC1.4.3: Introductory sentence | |
| SDC1.4.4: Introductory sentence | |
| SDC1.4.8.3(xxiv) | |
| SDC1 Appendix B | |
| SDC1.4.2.2(f) | The CCGT Matrix can be amended in the SONI Grid Code as per a specific requirement in the Planning Code Appendix, whereas the EirGrid Code can be amended as per any Planning Code data. |
| SDC1.4.4.3 | There are differences in how Reserve capabilities are notified to both SONI and EirGrid. |

| Provisions used in EirGrid Grid Code only | |
|--|--|
| SDC1.4.4.2 (i) | There are differences in how Operating Reserve |

| | |
|--|---|
| | capabilities are notified to both SONI and EirGrid. |
|--|---|

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