

DRAFT ALL ISLAND GRID CODE

SCHEDULING AND DISPATCH CODE NO.1

GENERATION SCHEDULING

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

SDC1.1 **INTRODUCTION**

SDC1.1.1 **SEM Provisions**

(a) This Scheduling and Dispatch Code No. 1 ("SDC1") forms part of the **Common Sections** of the **Grid Code**. The **Common Sections** 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 the same as the SDC1 in the **Other Grid Code** except for references to relevant power systems and related terms, and except for those provisions which appear in italic font. The provisions in italic font only apply in relation to this **Grid Code** and relate to matters which are not appropriate to include in both codes.

(c) This SDC1 needs to work in conjunction with a number of 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 must be a party to the **TSC**. The **Single 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 **Single Market Operator** under the provisions of the **TSC**, as further provided in this SDC1. The **TSO** may require **Users** to verify or update data received by it via the **Single Market Operator** in that way.

(e) Further provisions dealing with the **Common Sections** 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** of any of its:

(i) **CDGUs**;

[Note: Please note that unless otherwise specified in SDC1, CDGUs include Thermal Plant including CCGT Installations, Hydro Plant, Pumped Storage Generators in respect of their Pumped Storage generation (but not Demand) and Dispatchable WFPSs.]

(ii) **Controllable WFPSs;**

[Note: Please note that Controllable WFPSs are not currently subject to Dispatch Instructions but the TSOs can directly control the maximum MW being exported from them. The treatment of Controllable WFPSs in the SDCs is still being considered.]

(iii) **Pumped Storage Generators** in respect of their **Pumped Storage Plant Demand;**

(iv) **[Interconnector Import Units];** and/or

(v) **Demand Side Units.**

(b) **Operating Characteristics:** the daily notification to the **TSO** of the **Operating Characteristics**, in respect of the following **Trading Day**, by each **User** in an **Operating Characteristics Notice**, and of **Other Relevant Data**;

(c) **Commercial Offer Data:** the daily notification of **Commercial Offer Data**;

(d) **Updates:** updates 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) **Controllable WFPSs;**

(iii) **Pumped Storage Plant Demand;**

(iv) **[Interconnector Import Units];** and/or

(v) **Demand Side Units**

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).

SDC1.2 **OBJECTIVE**

[13.03.07
(22034499.06)]

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 **TSO's System**;
- (c) to ensure the security and quality of supply in relation to the **TSO's System**;
- (d) to ensure that there is sufficient capacity to meet the **TSO's [System] Demand** at all times together with an appropriate margin of reserve.

SDC1.3

SCOPE

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

- (a) **Generators** with regard to their:
CDGUs; and
Controllable WFPSSs.

[Note: As explained above, please note that unless otherwise specified in SDC1, CDGUs include Thermal Plant including CCGT Installations, Hydro Plant, Pumped Storage Generators in respect of their Pumped Storage generation and Dispatchable WFPSSs.]

- (b) **[Pumped Storage Generators]** with regard to their **Pumped Storage Plant Demand**];

- (c) **[Interconnector Import Users]** with regard to their **[Interconnector Units/electricity to be transferred onto the Transmission System]**; and

[Note: Please note that the issue of the references to interconnectors generally is still being considered.]

- (d) **Dispatchable Demand Customers** in relation to their **Demand Side Units**.

SDC1.4

PROCEDURE

SDC1.4.1

Availability Notice

SDC1.4.1.1

Requirement: Each **User** shall, by not later than **Gate Closure** each day, notify the **TSO** by means of an **Availability Notice** in the form published on the **TSO** website or in such other form as the **TSO** may reasonably notify from time to time, of the **Availability** of each of its **CDGUs, Controllable WFPSSs, Pumped Storage Plant Interconnector Units** or **Demand Side Units**, as the case may be.

[13.03.07
(22034499.06)]

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**.

SDC1.4.1.2 Content: The **Availability Notice** shall state the **Availability** of the relevant:

CDGU; or
Controllable WFPSs; or
[Interconnector Import Unit]; or

the **Available Demand Reduction** of the **Demand Side Unit**, as the case may be, (including, in the case of a **CCGT Installation**, the **Availability** of each of the **CCGT Modules** within it) for each period in the following **Optimisation Time Horizon Period** (subject to revision under SDC1.4.4.6(a)). Each **Availability Notice** submitted in relation to an **Optimisation Time Horizon Period** will supersede the previous one in relation to that part of the previous **Optimisation Time Horizon Period** which is covered by the new one.

SDC1.4.1.3 Whole Numbers: The **MW** figure stated in the **Availability Notice** must be a whole number. *[Note: Please note that this provision will need to be made consistent with the TSC, or vice versa, in due course.]*

SDC1.4.1.4 Atmospheric Conditions: In the case of **CDGUs** and/or **Controllable WFPSs** which are affected by ambient conditions, an **Availability Notice** submitted by a **Generator** must be stated at the **User's** best estimate of the prevailing atmospheric condition 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** 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** must submit an **Availability Notice** setting out the information in SDC1.4.1.2 above for each **[Designated Fuel]** for the **CDGU**. *[Note: Please note that the fuel/dual fuel issues are being considered further.]*

SDC1.4.2.2 CCGT Availability: The **Availability** of each **CCGT Module** within each **CCGT Installation**;

SDC1.4.2.3 **CCGT Installations**:

(a) In the case of a **CCGT Installation**, the **CCGT Installation Matrix** submitted by the **Generator** under PCA2.3.4 of the Planning Code in Northern Ireland or PC.A4.3 of the Planning Code Appendix in the Republic of Ireland is used and relied upon by the **TSO** as a 'look up table' to determine the number of **CCGT Modules** within a **CCGT Installation** which will be synchronised to achieve the **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**

contained in an **Availability Notice** submitted by a **Generator** pursuant to this SDC1. The **Availability** figures submitted must be consistent with the Generator's submission under the **TSC**.

[Note: Please note that the above paragraph was worded to reflect the fact that the TSO needs to know the Availability of each Generating Unit and how such units can be configured to carry out effectively its Dispatch and Scheduling functions. However, the provision of such data would be for Grid Code purposes only.]

- (b) 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**.
- (c) In achieving a **Dispatch** instruction the range or number of **CCGT Modules** envisaged in moving from one **MW** output level to the other must not be departed from. Each **Generator** shall notify the **TSO** as soon as practicable after the event of any such variance. There is a provision in SDC1.4.4.6 for the **Generator** to revise the **CCGT Installations Matrix**, subject always to the provisions of SDC1.4.3.2;
- (d) *In Northern Ireland, the **CCGT Installation Matrix** can only be amended in accordance with PCA2.3.5 of the **SONI Grid Code**.*

SDC1.4.2.4 ***[Note: Please note that special considerations regarding Hydro Units and Pumped Storage Plants are to be considered here.]***

SDC1.4.3 **General Availability Requirements**

Availability of Generating Plant

The following provisions apply to **Generating Plant** *other than to NI 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 [Each **Generator** shall in relation to its **CDGUs** maintain, repair, operate and fuel the **CDGU** and/or **Controllable WFPS** as required by **Prudent Operating Practice** and any legal requirements with a view to providing the required **[System Support Services** in Northern Ireland and **Ancillary Services** in the Republic of Ireland].]

[Note: Please note that the wording of the above paragraph is to be considered further.]

SDC1.4.3.2 Each **Generator** shall, subject to SDC1.4.3.3, use reasonable endeavours to ensure that it does not at any time declare in the case of a **CDGU** and/or **Controllable WFPS**, its **Availability** or **[GSDPs/Operating Characteristics/Contracted Parameters]** at levels or values different from those that the **CDGU** and/or **Controllable WFPS** 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:

[13.03.07
(22034499.06)]

- (a) it would require the **Generator** to declare levels or values better than **[Contracted/Registered] Capacity** and **Contracted [GSDPs/ Operating Characteristics/ Contracted Parameters]** in respect of a **CDGU** and/or **Controllable WFPS**;
- (b) necessary during periods of **[Scheduled/Planned] Outage** or **Short Term [Scheduled/Planned] Maintenance Outage** or otherwise with the consent of the **TSO**;
- (c) necessary while repairing or maintaining the **CDGU** and/or **Controllable WFPS** or equipment necessary to the operation of the **CDGU** and/or **Controllable WFPS** where such repair or maintenance cannot reasonably, in accordance with **Prudent Operating Practice**, be deferred to a period of **[Scheduled/Planned] Outage** or **Short Term [Scheduled/Planned] Maintenance Outage**;
- (d) necessary to avoid an imminent risk of injury to persons or material damage to property (including the **CDGU** and/or **Controllable WFPS**); or
- (e) it is not lawful for the **Generator** to operate the **CDGU** and/or **Controllable WFPS**.

SDC1.4.3.4 Availability of Demand Site Units

Each **Dispatchable Demand Customer** shall use reasonable endeavours to ensure that it does not at any time declare its **Demand Side Unit Available Demand Reduction** and characteristics at levels or values different from those that the **Demand Side Unit** could achieve at the relevant time. The **TSO** can reject declarations to the extent that they do not meet these requirements.

SDC1.4.3.5 Changes in Availability:

If a **Generator** 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** immediately following the specified time.

SDC1.4.3.6

If at any time when a **CDGU** and/or **Controllable WFPS** is **Synchronised** to the **System** the **Generator** issues 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:

- (a) capable of maintaining **Load** at the level of the prevailing **Availability** until a time (the "breaktime") which when the time taken to **De-Load** at the maximum declared **De-Loading Rate** to the new lower level of **Availability** from the existing level is added would be the time at which the **De-Load** must commence and
- (b) from the breaktime shall be capable of maintaining **Load** to the level which would have been achieved if a **Dispatch** instruction had been given to **De-Load**, with effect from such time, at the maximum **De-Loading Rate** declared for the **CDGU** and/or **Controllable WFPS** as a **[GSDPs/Operating Characteristic/Contracted Parameters]** down to

the level of **Availability** specified in the new **Availability Notice**, such new load being achieved at the specified time.

[Note: Please note that further consideration is being given to the wording in the above paragraph.]

SDC1.4.3.7 If a **Dispatchable Demand Customer** issues an **Availability Notice** increasing (from zero or otherwise) or decreasing the level of **Available Demand Reduction** of its **Demand Side Units** from a specified time, such notice shall be effective from the **Trading Period** immediately following the specified time.

SDC1.4.4 **[GSDPs/Operating Characteristics/Contracted Parameters]**

SDC1.4.4.1 **[GSDP/Operating Characteristics/Contracted Parameters]**

[Note: Please note that all technical data should be submitted net of unit load, as is the case on the market.]

[Note: Please note that the way in which 'Demand' bids are to be dealt with is being considered further.]

(a) By not later than **Gate Closure** [each day], each **Generator** shall in respect of each **CDGU** and/or **Controllable WFPS** submit to the **TSO** a **[GSDPs/Operating Characteristics/Contracted Parameters] Notice** in the form set out on the **TSO** website or in such other form as the **TSO** may reasonably notify to each **Generator** from time to time, containing the **[GSDPs/Operating Characteristics/Contracted Parameters]** to apply for the following **Trading Day**.

[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 under the **Grid Code**.

If there is no change to the data such that there is no requirement to submit under the **TSC**, the **Generator** must submit a **[GSDPs/Operating Characteristics/Contracted Parameters] Notice** under this SDC1.]

[Note: Please note that the wording in square brackets above is subject to further consideration.]

(b) Flexibility:

(i) In the case of any **[GSDPs/ Operating Characteristics/ Contracted Parameters]** as to which the **Generator** should, acting in accordance with **Prudent Operating 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. [This deals with Grid Code flexibility and not TSC flexibility.]

- (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 **Generator** of the reasons for such flexibility request in such degree of detail as the **TSO** considers reasonable in the circumstances.
- (iii) If the **Generator** agrees to such suggestion (such agreement not to be unreasonably withheld) the **Generator** shall use reasonable endeavours to accommodate such suggestion and submit a revised **[GSDPs/ Operating Characteristics/ Contracted Parameters] Notice** accordingly. In any event, the **TSO** may require such further information on the revision as is reasonable and the **Generator** must give the **TSO** such information as soon as reasonably practicable.

SDC1.4.4.2 Additional Grid Code Characteristics Notice

The following items are required to be submitted by each **User** direct to the **TSO**.

- (a) Individual **CCGT Module** data equivalent to the data required for a **CCGT Installation**. It must also show any revisions to the **[GSDPs/Operating Characteristics/Contracted Parameters]** for each of the **CCGT Modules** within it.
- (b) [Different Fuels]: In the case where a **CDGU** is capable of firing on different fuels, then the **Generator** must submit an **Additional Grid Code Characteristics Notice** in respect of each **[Designated Fuel]** for the **NI PPA CDGU** (or fuel in the case of a **CDGU** other than a **NI PPA CDGU**), each containing the information set out in SDC1.4.4.1 above for each **[Designated Fuel]** (or each fuel) and each marked clearly to indicate to which **[Designated Fuel]** (or fuel) it applies. **[Note: Please note that fuel issues are being considered further.]**
- (c) [Export Adjustment Factors]

SDC1.4.4.3 Reserve Capability:

- (a) *In the Republic of Ireland a **Generator** must submit to the **TSO** the **Operating Reserve Capabilities** for each category of **Operating Reserve** defined in OC4.6.3.3, OC4.6.3.4, OC4.6.3.5, OC4.6.3.6 and OC4.6.3.7 for each of its **CDGUs** for each **Trading Period**.*

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

- (b) A **Generator** must notify the **TSO** as soon as it becomes aware, acting in accordance with **Prudent Operating Practice**, if any of its **CDGUs** /or **Controllable WFPSs** is unable to meet the **Reserve Capability** [(as contained in a **Sustained Load Diagram** submitted pursuant to the Planning Code (“PC”) in **Northern Ireland** or the **Ancillary Services Agreement** in the **Republic of Ireland**)], whether that is due to a defect in the **CDGU** and/or **Controllable WFPS** or in its associated **Power Station Equipment** submitted pursuant to the PC.

Such notification must be made by submitting a **[GSDPs/ Operating Characteristics/ Contracted Parameters] Notice** in relation to **Sustained Response Capability**. 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** or any associated **Power Station Equipment**.

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

- (c) Such amendment 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** or associated **Power Station Equipment** to be repaired and such repair must 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(a), and the **Generator** must then submit a **[GSDPs/ Operating Characteristics/ Contracted Parameters] Notice** re-declaring the **Reserve Capability** accordingly. The **Generator** must 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.

SDC1.4.4.4

Generation Other Relevant Data

- (a) By not later than **Gate Closure** each day, each **Generator** shall in respect of each of its **CDGUs** and/or **Controllable WFPSs** 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 **Generator** 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 **Generator** may have a material effect on the likely output of such **Generating Unit** (including, for a **CCGT Installation** in relation to each of the **CCGT Modules** therein). The notice must be consistent with the **Generator's** obligations under SDC1.4.4.4.
- (b) Where a **CDGU** is capable of firing on different fuels, then the **Generator** must submit details in respect of each fuel for the **CDGU**. Each set of details must contain the information set out in (a) above for each **[Designated Fuel]** (or fuel) and each must be marked clearly to indicate to which **[Designated Fuel]** (or fuel) it applies.

SDC1.4.4.5

Commercial Offer Data

- (a) Each **Generator, Pumped Storage Generator, Interconnector Import User and Dispatchable Demand Customer** shall in respect of each of its **CDGUs** and/or **Controllable WFPSs**, each of its **Pumped Storage Plant Demand**, each of its **Interconnector Units** and each of its **Demand Side Units** (as the case may be) which have been declared **Available** in an **Availability Notice** under SDC 1.4.1.1 in respect of the following **Optimisation Time Horizon Period** [or which may declare **Available** under SDC 1.4.4.7] submit to the **TSO Commercial Offer Data** in accordance with the **TSC**. A **Generator** may satisfy this obligation by submitting the [**Price Set/Commercial Offer Data**] under the **TSC**, unless the **TSO** requires by notice to the **Generator** the data to be submitted to it directly under the **Grid Code**. *[Note: Please note that further consideration is being given to the way in which to deal with Demand here.]*
- (b) Each **Generator** shall in respect of each of its **Energy Limited Hydro Units** submit an **Energy Target** instead of a [**Price Set/Commercial Offer Data**].
- (c) [**Pumped Storage Plant**]
- (d) All data items submitted under this SDC1.4.4.5 are to be at levels of **Output net of Unit Load**.

SDC1.4.4.6

Revisions/Redeclarations to Data

- (a) **Availability:** A **User** may, subject to SDC1.4.3.2, 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 SDC1.4.3.1 to SDC1.4.3.3 and Appendix B to this SDC1 by submission by **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.
- (b) In the event that the **TSO** submits a **Post Event Notice** under OC11 of the **SONI Grid Code** or OC10 of the **EirGrid Grid Code** (as the case may be) 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**. The revisions to the **Availability Notice** may include revisions of the levels of **Availability** in the **CCGT Installation Matrix** reflecting the revised **Availability**. The **TSO** shall, insofar as it is reasonably able, take account of such revisions in the preparation of the **Indicative Operations Schedule**.
- (c) **Additional Availability:** A **User** may, subject to SDC1.4.3.2, make revisions to the **Additional Grid Code Availability Notice** submitted to the **TSO** under SDC1.4.1.4 at any time after the submission of the **Additional Grid Code Availability Notice** in accordance with its obligations to make the **Unit Available** under SDC1.4.3.1 to SDC1.4.3.3

and Appendix B to this SDC1 by submission by **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.

(d) **[GSDPs/ Operating Characteristics/ Contracted Parameters]**: If any of the data submitted to the **TSO** under SDC1.4.4.1 to SDC1.4.4.4 changes, a **Generator** must, subject to SDC1.4.3.2, (in the case of data submitted under SDC1.4.4.1 by means of a **[GSDPs/ Operating Characteristics/ Contracted Parameters] Notice**) make revisions to such data and must notify the **TSO** of any revisions to any previously revised data by submitting by **Electronic Interface** a revised **[GSDPs/ Operating Characteristics/ Contracted Parameters] Notice** in the form set out on the **TSO** website or in such other form as the **TSO** may reasonably notify to each **Generator** from time to time, and must notify the **TSO** of any **Generation Other Relevant Data** of which it becomes aware at any time after any original submission in writing. The **TSO** shall, insofar as it is reasonably able, take account of such revisions or notifications. The provisions of SDC1.4.3.2 shall apply to revisions under this paragraph to data submitted under SDC1.4.4.1 to SDC1.4.4.4.

(e) **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 submission of a revised such notice. The Notice shall be in the form set out on the **TSO** website or in such other form and the **TSO** may reasonably notify to each **User** from time to time.

(f) [Revised Energy Limits for Hydro at any time in writing per unit basis].

SDC1.4.4.7

(a) Defaults:

[Note: Please note that the obligation on a Generator to submit data under SDC1.4.4.1(a), and in particular the interaction between the TSC and the Grid Code in this regard, is being considered further.]

(i) [Insofar as any data submitted or deemed to have been submitted on any particular day in any **Availability Notice**, **[GSDPs/ Operating Characteristics/ Contracted Parameters] Notice**, or notice of **Generation Other Relevant Data** or any revision thereto is inconsistent with any other data in any other such notice, then the applicable **Standing Technical Offer Data** which, if substituted for the inconsistent data, would make the data in such notices consistent, shall apply for the next following **Trading Day**.

(ii) Insofar as an **Availability Notice** is not submitted, the **Generator** shall be deemed to have submitted an **Availability Notice** by **Gate Closure** stating that the **Availability** of the relevant **CDGU** and/or **Controllable WFPS** for the whole of the following **Trading Day** will be the level of **Availability** and **Operating Mode** declared in respect of the applicable **Standing**

Offer Data. *[Note: Please note that consideration is currently being given to a new way of referring to Operating Mode as this term is broader in the Republic of Ireland than in Northern Ireland at present.]*

- (iii) Insofar as not revised, the applicable **Standing Technical Offer Data** for **[GSDPs/ Operating Characteristics/ Contracted Parameters]** shall apply for the next following **Trading Day**.
- (iv) Insofar as not revised, the last notice relating to **Generation Other Relevant Data** to have been submitted shall apply for the next following **Trading Day**.

[Note: Please note that consideration is currently being given as to how to deal with Hydro default here.]

- (b) As a general requirement, the **Generator** must ensure that the data in any **Availability Notice**, **[GSDPs/ Operating Characteristics/ Contracted Parameters] Notice**, or notice of any other relevant data or any revision thereto is consistent with its obligations under SDC1.4.3.2. *[Note: Please note that further consideration is being given to a wider User reference.]*

SDC1.4.4.8

- (a) Telephone Submission: Where this SDC1 requires a **Generator** to submit a notice, the form of which is set out on the **TSO** website, it may instead of submitting it in writing, submit the information required in such a notice (which information must 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 on behalf of the **Generator** must 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** and/or **Controllable WFPS** in question.

- (c) The notice must then be confirmed by facsimile transmission or any other 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 must state the exact time at which the notice was given by telephone.]

SDC1.4.5 Compilation of the Indicative Operations Schedule

SDC1.4.5.1 An **Indicative Operations Schedule** will be compiled daily by the **TSO** as a statement of which **CDGUs** and/or **Controllable WFPSs** and/or transfers across any **External Interconnection** and/or **Demand Side Units** may be required to operate and their expected output for the next following **Trading Day**.

[Note: Please note that consideration is currently being given to the fact that two TSOs will be preparing an Indicative Operations Schedule and how this will impact on SDC1.]

SDC1.4.5.2 Merit Order

A **Merit Order** will be compiled for each **Trading Day** and, subject as provided in this SDC1, used to determine which **CDGU**, **Controllable WFPS**, **Pumped Storage Plant Demand Tranche** and/or **Demand Side Unit to Schedule and Dispatch** in relation to their [**Price Sets/Indicative Price Bids**]. The **Merit Order** will be on the terms of ascending prices so that the **CDGU**, **Controllable WFPS**, **Pumped Storage Plant Demand Tranche** or **Demand Side Unit** [**Price Set/indicative price bid**] at the head of the **Merit Order** will be that which has the lowest [**Incremental Price per MWh**]. Each **CDGU**, **Controllable WFPS**, **Pumped Storage Plant Demand Tranche** and/or **Demand Side Unit** shall appear in the **Merit Order** for each [**Price Set/indicative price bid**] submitted.

[Note: Please note that the paragraph above was worded to reflect the fact that there are different price sets per Generating Unit and that a Merit Order would be organised on the basis of price sets rather than per installation.]

SDC1.4.5.3 In compiling the **Indicative Operations Schedule**, the **TSO** will take account of and give due weight to the following factors:

[Note: Please note that the factors below are all being checked and considered]

[Note: Please note that references to Demand are being considered.]

- (i) **Transmission System** (and in Northern Ireland only **Distribution System**) constraints from time to time, as determined by the **TSO**;
- (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 of the **SONI Grid Code** /OC4.6 and CC7.3.1.1 of the **EirGrid Grid Code** (as the case may be), as determined by the **TSO** acting in conjunction with the **Other TSO**;
- (iv) **Transmission System** stability considerations;
- (v) the level of output and availability covered by **Non-CD Plant**, by **Plant** subject to **Priority Dispatch** and by **Controllable WFPS**;

- (vi) in respect of **CDGUs** and/or **Controllable WFPSs**, their [**Availability**], [**Target Reservoir Levels** for **Pumped Storage** taken against the initial conditions at 0600 hours the previous day], [Energy limits for Hydro Units] and the values of their [**GSDPs/ Operating Characteristics/ Contracted Parameters**] registered under this **SDC1** and other information submitted under SDC1.4.4.4; [**Note: Please note that the TSOs are currently considering the inclusion of a reference to a joint approach.**]
- (vii) the **Start-Up Price** of each **CDGU** and/or **Controllable WFPSs**;
- (viii) the requirements, as determined by the **TSO** for **Voltage Control** and **Mvar** reserves;
- (ix) **CDGU** and/or **Controllable WFPS** stability, as determined by the **TSO**;
- (x) other matters to enable the **TSO** to meet its **Licence Standards**;
- (xi) the requirements, as determined by the **TSO** for [**System Support Services** in Northern Ireland and **Ancillary Services** in the Republic of Ireland] and for maintaining **Frequency Control**;
- (xii) **Monitoring** and/or **Testing** and/or **Investigations** to be carried out, or being carried out, under OC11 of the **SONI Grid Code** / OC10 of the **EirGrid Grid Code** (as the case may be), testing to be carried out, or being carried out, at the request of a User under OC11.8 of the **SONI Grid Code** / OC 8.5 of the **EirGrid Grid Code** and/or **Commissioning/Acceptance Testing** under the CC;
- (xiii) **System Tests**;
- (xiv) any "take or pay" contract for the purchase of fuel to which a **Generator** is a party and the terms of which have been agreed by the **TSO** and which impact on the **TSO** and/or the terms of any other contract to which the **TSO** is [a party] and which may, in its opinion, be relevant;
- (xv) the inability of any **CDGU** and/or **Controllable WFPS** to meet its full **Reserve Capability**;
- (xvi) **Inter-jurisdictional Tie Line** limits;
- (xvii) other facts as may be reasonably considered by the **TSO** to be relevant to the **Indicative Operations Schedule**;
- (xviii) **Generator Declared Inflexibilities** and abnormal risks;
- (xix) [Transmission losses]; and
- (xx) **Unconstrained Indicative Market Schedule** for **Moyle** only.

SDC1.4.5.4 Taking account of and applying the factors referred to in SDC1.4.5.3, 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 and/or such **Demand Side Units** 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** and/or such **Demand Side Unit [Price Set]** at the head of the **Merit Order**;
- (ii) as will in aggregate (after taking into account electricity delivered other than from **CDGUs** and/or **Controllable WFPSs** 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** of **CDGUs, Controllable WFPSs, Pumped Storage Plant Demand** and [**Demand Side Units**]) the forecast [**Demand** (derived under OC1 of the **SONI Grid Code** and **EirGrid Grid Code**) together with such margin of reserve as the **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 SDC1.4.5.3 will mean that, in general, the strict **Merit Order** may not necessarily be followed.

SDC1.4.5.5

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 output of the **Scheduling** process. Such adjustments could be made necessary by any of the following factors:

- (a) changes to **Availability** and/or [**GSDPs/ Operating Characteristics/ Contracted Parameters**] of **CDGUs** and/or **Controllable WFPSs** [and **Demand** bidders], notified to the **TSO** after the commencement of the **Scheduling** process;
- (b) changes to [**NI**] [**System**] **Demand** forecast(s);
- (c) [changes to Wind Forecasts];
- (d) changes to [**NI**] **System** constraints, emerging from the necessarily iterative process of **Scheduling** and network security assessment;
- (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 [**NI**] [**System**] **Demand** forecasts within that **Constrained Group**];
- (g) changes to any conditions which in the reasonable opinion of the **TSO**, would impose increased risk to the **NI System** and would therefore require an increase in the **Operating Margin**. Examples of these conditions are:

- (i) unpredicted **[NI] System Outages** which places (say) more than the equivalent of one large **CDGU** and/or **Controllable WFPS** at risk [to a secured fault];
- (ii) unpredicted **Outage of Generating Plant** equipment which imposes increased risk to the station output;
- (iii) volatile weather giving rise to low confidence in **NI Demand** forecasts;
- (iv) severe weather conditions imposing high risk to the **[NI] Total System**; and

[Note: Please note that consideration is currently being given as to whether “Total System” needs to be defined differently in the EG and SONI Grid Codes.]

- (h) known (or emerging) limitations and/or deficiencies of the **Scheduling** process.

SDC1.4.5.6

When:

- (a) adverse weather is anticipated;
- (b) there is a high risk to the whole or part of the **[NI] 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** and/or **Controllable WFPS**, **Pumped Storage Plant Demand** or **Demand Side Unit** [or Demand bid reference] is 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 SDC1.4.5.3 in order to seek to maintain the integrity of the **[NI] System**.

SDC1.4.5.7

The **Synchronising** and **De-Synchronising** times 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** and/or **Controllable WFPS**, **Pumped Storage Plant Demand** or **Demand Side Unit** requirements than in the **Indicative Operations Schedule**. The **TSO** may issue **Dispatch** instructions in respect of any **CDGU** and/or **Controllable WFPS**, **Pumped Storage Plant Demand** or **Demand Side Unit** which has not been declared wholly **Unavailable** in an **Availability Notice**. **Users** with **CDGUs** and/or **Controllable WFPSs**, **Pumped Storage Plant Demand** or **Demand Side Unit** must ensure that their **Generating Units/[Demand]** are able to be **Synchronised** [used] at the times **Scheduled** but only if so **Dispatched** by the **TSO** by issue of a **Dispatch** instruction. **Generators** shall, as part of a revision to the **[GSDPs/ Operating Characteristics/ Contracted Parameters]**, indicate to the **TSO** the latest time at which a **Dispatch** instruction is required to meet the **Scheduled Synchronising** time.

SDC1.4.5.8 Content of Indicative Operations Schedule

The information contained in the **Indicative Operations Schedule** will indicate, on an individual **CDGU** and/or **Controllable WFPS, Pumped Storage Plant Demand** or **Demand Side Unit** 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 [**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. Equivalent rules apply to fuels at [**CDGUs other than NI PPA CDGUs**].

[Note: Please note that the above paragraph may need to be reconsidered in light of the fuel issues.]

SDC1.4.5.9 Issue of Indicative Operations Schedule

(a) The **Indicative Operations Schedule** will be published for **Generators** [and **Dispatchable Demand Customers**] by 1600 hours each day preceding the relevant **Trading Day**, provided that all the necessary information from the **Generators** [and **Dispatchable Demand 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 **CDGUs, Controllable WFPSs, Pumped Storage Plant Demand** and/or **Demand Side Units** 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** 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 WFPS, Pumped Storage Plant Demand** and/or **Demand Side Units** 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** must inform the **TSO** without delay.

SDC1.4.5.10 Regulation

It is a requirement for running the [**NI**] **System** that all **Synchronised CDGUs** and/or **Controllable WFPSs** must at all times be capable of reducing output sufficient to allow a sufficient regulating margin for adequate **Frequency Control**.

The **TSO** will monitor the output data of the **Indicative Operations Schedule** against forecast [**NI**] [**System**] **Demand** to see whether the level of regulation for

any period is insufficient, and may take any shortfall into account in **Scheduling** and **Dispatch**.

SDC1.4.5.11 Data Requirements

Appendix A Part 1 sets out the [**GSDPs/ Operating Characteristics/ Contracted Parameters**] for which values are to be supplied by a **Generator** in respect of each of its **CDGUs** and/or **Controllable WFPSs** by not later than **Gate Closure** on the day prior to the **Trading Day**.

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

SDC1 – APPENDIX A

[Note: Please note that the insertion of other factors is being considered.]

1. Generation Scheduling and Dispatch Parameters

Variable	Applies to
Minimum on time	All Generating Units , except Autonomous Generating Units and Demand Side Units
Minimum off time	All Generating Units , except Autonomous Generating Units and Demand Side Units
Synchronous Start-Up Time Hot	All Generating Units , except Autonomous Generating Units and Demand Side Units
Synchronous Start-Up Time Warm	All Generating Units , except Autonomous Generating Units and Demand Side Units
Synchronous Start-Up Time Cold	All Generating Units , except Autonomous Generating Units and Demand Side Units
Time to Synchronise	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp up rates and breakpoints, dependent on warmth state	All Generating Units , except Autonomous Generating Units and Demand Side Units
Block Load Cold	All Generating Units , except Autonomous Generating Units and Demand Side Units
Block Load Hot	All Generating Units , except Autonomous Generating Units and Demand Side Units
Block Load Warm	All Generating Units , except Autonomous Generating Units and Demand Side Units
Deload Break Point	All Generating Units , except Autonomous Generating Units and Demand Side Units
Deloading Rate 1	All Generating Units , except Autonomous Generating Units and Demand Side Units
Deloading Rate 2	All Generating Units , except Autonomous Generating Units and Demand Side Units
Dwell Time 1	All Generating Units , except Autonomous Generating Units and Demand Side Units
Dwell Time 2	All Generating Units , except Autonomous Generating Units and Demand Side Units
Dwell Time 3	All Generating Units , except Autonomous Generating Units and Demand Side Units
Dwell Time Trigger Point 1	All Generating Units , except Autonomous Generating Units and Demand Side Units
Dwell Time Trigger Point 2	All Generating Units , except Autonomous Generating Units and Demand Side Units

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Variable	Applies to
Dwell Time Trigger Point 3	All Generating Units , except Autonomous Generating Units and Demand Side Units
End Point of Start Up Period	All Generating Units , except Autonomous Generating Units and Demand Side Units
Load Up Break Point Cold (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Load Up Break Point Cold (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Load Up Break Point Hot (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Load Up Break Point Hot (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Load Up Break Point Warm (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Load Up Break Point Warm (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Loading Rate Cold (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Loading Rate Cold (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Loading Rate Cold (3)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Loading Rate Hot (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Loading Rate Hot (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Loading Rate Hot (3)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Loading Rate Warm (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Loading Rate Warm (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Loading Rate Warm (3)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Maximum number of on Load cycles per 24 hour period, together with the maximum Load increases involved	All Generating Units , except Autonomous Generating Units and Demand Side Units
Minimum Generation	All Generating Units , except Autonomous Generating Units and Demand Side Units
Maximum Generation	All Generating Units , except Autonomous Generating Units and Demand Side Units

Variable	Applies to
Ramp Down Break Point 1	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Down Break Point 2	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Down Break Point 3	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Down Break Point 4	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Down Rate 1	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Down Rate 2	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Down Rate 3	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Down Rate 4	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Down Rate 5	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Up Break Point 1	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Up Break Point 2	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Up Break Point 3	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Up Break Point 4	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Up Rate 1	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Up Rate 2	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Up Rate 3	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Up Rate 4	All Generating Units , except Autonomous Generating Units and Demand Side Units
Ramp Up Rate 5	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Cold (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Cold (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units

Variable	Applies to
Soak Time Trigger Point Cold (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Trigger Point Cold (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Hot (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Hot (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Trigger Point Hot (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Trigger Point Hot (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Warm (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Warm (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Trigger Point Warm (1)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Soak Time Trigger Point Warm (2)	All Generating Units , except Autonomous Generating Units and Demand Side Units
Hot Cooling Boundary	All Generating Units , except Autonomous Generating Units and Demand Side Units
Warm Cooling Boundary	All Generating Units , except Autonomous Generating Units and Demand Side Units
Under Test Start Date	Generating Units Under Test only
Under Test End Date	Generating Units Under Test only
Forecast Availability Profile for each Trading Period in the Optimisation Time Horizon	All Generating Units , except Autonomous Generating Units and Demand Side Units
Forecast Minimum Output Profile for each Trading Period in the Optimisation Time Horizon	All Generating Units , except Autonomous Generating Units and Demand Side Units
Forecast Minimum Stable Generation Profile for each Trading Period in the Optimisation Time Horizon	All Generating Units , except Autonomous Generating Units and Demand Side Units
Nomination Profile	Variable Price Taker Generating Units only
Maximum Reservoir Capacity	Pumped Storage Units only
Minimum Reservoir Capacity	Pumped Storage Units only
Pumping capacity	Pumped Storage Units only
(Other relevant technical parameters)	All Generating Units , except Autonomous Generating Units and Demand Side Units

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Variable	Applies to
Energy Limit	Energy Limited Generating Units only
Energy Limit Factor	Energy Limited Generating Units only
Energy Limit Start	Energy Limited Generating Units only
Energy Limit Stop	Energy Limited Generating Units only
Max Ramp Down Rate	Demand Side Units only
Max Ramp Up Rate	Demand Side Units only
Minimum Down Time	Demand Side Units only
Maximum Down Time	Demand Side Units only
Aggregate Ramp Rate	Interconnector Administrator only
Interconnector Unit Capacity Holding Data	Interconnector Administrator only
Maximum Interconnector Unit Import Capacity	Interconnector Units only
Maximum Interconnector Unit Export Capacity	Interconnector Units only
Short Term Maximisation Capability	All Generating Units except Demand Side Units, Autonomous Generating Units, Interconnector Residual Capacity Units, or Interconnector Error Units

[2. Additional data items required in an Additional Grid Code Characteristics Notice for SONI only]

[Note: Please note that this part of the Appendix is to be considered further.]

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
Sustained Response Capability	All CDGUs
Two shifting limitation (limitation on the number of Start-ups per Trading Day)	All CDGUs
The MW and Mvar capability limits within which the CDGU is able to operate as shown in the relevant Generator Performance Chart	All CDGUs
Maximum number of changes to the [Dispatched Fuel] per 24 hour period	All CDGUs
Maximum quantity of oil in “ready-use tanks” and associated pipework	All CDGUs
Maximum number of changes to the	All CDGUs

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Variable	Applies to
[Designated Fuel] per 24 hour period	
Minimum notice to change the [Designated Fuel]	All CDGUs
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
Declared Maximisation Capacity	CDGUs which are Open Cycle Gas Turbines or CCGTs
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

[2. Additional data items required in an Additional Grid Code Characteristics Notice for EirGrid only]

[Note: Please note that this part of the Appendix is to be considered further.]

Variable	Applies to
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
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

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Variable

Correction Factor (Mvar Consumption)

Correction Factor (Mvar Production)

Export Adjustment Factor 1

Export Adjustment Factor 2

Unit Loss Factor

Applies to

CDGUs, excluding Dispatchable WFPSs

CDGUs, excluding Dispatchable WFPSs

CDGUs, excluding Dispatchable WFPSs

CDGUs, excluding Dispatchable WFPSs

CDGUs, excluding Dispatchable WFPSs

SDC1 - APPENDIX B

NI PPA Availability Provisions

1. *In relation to **NI 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 **NI PPA CDGU** and/or **Controllable WFPS**, maintain, repair, operate and fuel the **CDGU** and/or **Controllable WFPS** as required by **Prudent Operating Practice** and any legal requirements with a view to providing the **Contracted Capacity** and the **[GSDPs/ Operating Characteristics/ Contracted Parameters]** provided that in determining when so to maintain or repair the **CDGU** and/or **Controllable WFPS**, 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**.*

2. *In relation to **NI 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 **[GSDPs/ Operating Characteristics/ Contracted Parameters] Notice** which declares the **Availability** or **[GSDPs/ Operating Characteristics/ Contracted Parameters]** of the **CDGU**, **Controllable WFPS** and/or **Demand Side Units** including, in the case of a **CCGT Installation**, its **Operating Mode**) at levels or values different from those that the **NI PPA CDGU**, **Controllable WFPS** and/or **Demand Side Unit** 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 **NI PPA CDGU** and/or **Controllable WFPS** or equipment necessary to the operation of the **NI PPA CDGU** and/or **Controllable WFPS** 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 **NI PPA CDGU** and/or **Controllable WFPS**);*
 - (d) *if it is not lawful for the **Generator** to operate the **NI PPA CDGU** and/or **Controllable WFPS**; 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 **[GSDPs/ Operating Characteristics/ Contracted Parameters]** in respect of a **NI PPA CDGU** and/or **Controllable WFPS**.*

3. *[In relation to any steam turbine PPA CDGU at Kilroot Power Station, NIE may, in respect of any **Settlement Period** (and/or successive **Settlement 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 **Settlement 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 **Settlement 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 **Settlement Periods** specified in the **Overburn Notice**);*
 - (ii) the aggregate number of **Settlement 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) **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 **NIE** less than 24 hours in advance of the start of the relevant **Settlement Period**.]*

[Note: Please note that the provisions above were inserted to reflect legacy arrangements in Northern Ireland currently dealt with in the Power Purchase Arrangements.]