

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:

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(i) CDGUs;

[Note: Please note that unless otherwise specified in SDC1, CDGUs include Thermal Plant including CCGT Installations, Hydro ~~Plant~~Unit, 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;

(vi) Generator Aggregators in respect of the Generating Units which they represent; and

(vii) Demand Side Unit Aggregators in respect of the Demand Side Units which they represent.

(b) ~~Operating Characteristics~~Technical Parameters: the daily notification to the TSO of the ~~Operating Characteristics~~Technical Parameters, in respect of the following Trading Day, by each User in ~~an~~ ~~Operating Characteristics~~a Technical Parameters 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;

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20.04.07
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(iv) ~~Interconnector Import Units~~; and/or

(v) Demand Side Units;

(vi) Generator Aggregators; and/or

(vii) Demand Side Unit Aggregators

may be required.

[Note: Please note that further consideration is being given to how the different approaches in the SONI and EirGrid Grid Codes could be combined.]

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

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 on the Island of Ireland** at all times together with an appropriate margin of reserve.

It is also an objective to publish an Indicative Operations Schedule as provided for in this SDC1.

[Note: Please note that following comments received, reference is now being made in the objective section of SDC1 to the publication of an Indicative Operations Schedule.]

SDC1.3 SCOPE

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

- (a) **Generators** with regard to their:

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CDGUs; and
Controllable WFPSs.

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

- (b) ~~[/del>Pumped Storage Generators with regard to their Pumped Storage Plant Demand];~~
- (c) ~~[/del>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 ~~of 5MW and above; and~~
- (e) Generator Aggregators in respect of the Generating Units which they represent; and
- (f) Demand Side Unit Aggregator in respect of the Demand Side Units which they represent.

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 the such form ~~published on~~ as the TSO ~~website or in such other form as the TSO~~ may reasonably notify from time to time or in the form published on the TSO website, of the Availability of each of its CDGUs, Controllable WFPSs, Pumped Storage Plant, Interconnector Units or Demand Side 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 and Demand Side Unit 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 aggregated Availability or Demand Reduction of its Generating Units or Demand Side Units as the case may be.

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SDC1.4.1.2 Content:

(a) 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**, or the **Maximum Import / Export Capacity of an Interconnector 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.

(b) In the case of a Generator Aggregator, the Availability Notice shall state the aggregated Availability of the Generating Units represented by a Generator Aggregator.

(c) In the case of a Demand Side Unit Aggregator, the Availability Notice shall state the aggregated Demand Reduction of the Demand Side Units represented by the Demand Side Unit Aggregator.

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**, with the exception of Aggregators, 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.]*~~

[Note: Further consideration is being given as to whether fuel issues will be dealt with as part of System Support Services / Ancillary Services arrangements.]

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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.]*~~

[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.]

- (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~~should 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**

SDC1.4.3.1 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.

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[20.04.07](#)
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[Note: Please note that words in italics above will not be incorporated in the EGEirGrid Grid Code.]

SDC1.4.3.1*[Note: Please note that the paragraphs which do not apply to NI PPA generation are paragraphs 1.4.3.1 to 1.4.3.3.]*

[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 applicable to a jurisdiction, [in particular] 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.]*~~

[Note: Please note that the above paragraph is being considered further. Please note that following comments received, the words "applicable to a jurisdiction were added to reflect the fact that there are two jurisdictions.]

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 a **CDGU, a Generating Unit represented by a Generator Aggregator** and/or **Controllable WFPS**, its **Availability** or [~~**GSDPs/Operating Characteristics/Contracted**~~**Technical Parameters**] at levels or values different from those that the **CDGU, Generating Unit represented by a Generator Aggregator** 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.

[Note: Please note that any disputes arising out of this SDC1.4.3.2 should be settled in the same way as any other disputes under the Grid Codes and that it is therefore not necessary to refer to a separate dispute resolution mechanism here.]

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 [~~**Contracted/Registered**~~] **Capacity** and ~~**Contracted**~~ [~~**GSDPs/Operating Characteristics/**~~**Contracted** **Technical Parameters**] in respect of a **CDGU, Generating Unit represented by a Generator Aggregator** and/or **Controllable WFPS**;
- (b) necessary during periods of [~~**Scheduled/Planned**~~] **Outage** *Outage in the Republic of Ireland or Planned Outage in Northern Ireland* or *Short Term* [~~**Scheduled/**~~ **Outage in the Republic of Ireland or Planned**] **Maintenance Outage** *in Northern Ireland* or otherwise with the consent of the **TSO**;
- (c) necessary while repairing or maintaining the **CDGU, the Generating Unit represented by a Generator Aggregator** and/or **Controllable WFPS** or equipment necessary to the operation of the **CDGU, the Generating Unit represented by a Generator Aggregator** and/or **Controllable WFPS** where such repair or maintenance cannot

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reasonably, in accordance with **Prudent Operating Practice**, be deferred to a period of ~~[Scheduled/Planned] Outage~~ Outage in the Republic of Ireland or Planned Outage in Northern Ireland or **Short Term** ~~[Scheduled/~~ Outage in the Republic of Ireland or Planned ~~]~~ **Maintenance Outage**; in Northern Ireland ;

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

SDC1.4.3.4 **Availability of Demand Site Units**

- (a) 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.

[Note: The SONI and EirGrid Grid Codes do not currently refer to the criteria which a TSO will take into account when deciding to reject a declaration. We do not believe that inserting such criteria is necessary and in any event, such a change would not be justified for the purposes of the SEM.]

- (b) Each Demand Side Unit Aggregator shall use reasonable endeavours to ensure that it does not at any time declare its aggregated Demand Side Unit Demand Reduction and characteristics at levels or values different from those that, taken in aggregation, its Demand Side Units 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:**

- (a) If a **Generator** ~~issues an~~ or, where relevant a **Generator Aggregator** in respect of a **CDGU**, issues an **Availability Notice** increasing (from zero or otherwise) or decreasing the level of **Availability** from a specified time, such notice shall be effective immediately following the 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** ~~immediately~~ following the specified time.

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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 Technical 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.]*~~

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

SDC1.4.3.7 If a Dispatchable Demand Customer, or where relevant, a Demand Side Unit Aggregator, 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 Technical Parameters]~~

SDC1.4.4.1 ~~[GSDP/Operating Characteristics/Contracted Technical 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 User shall in respect of each CDGU and/or Controllable WFPS and/or in respect of a Generator Aggregator, its Generating Units taken in aggregation and/or Demand Side Unit submit to the TSO a ~~[GSDPs/Operating Characteristics/Contracted Technical Parameters]~~ Notice in ~~the form set out on the TSO website or in such other~~ such form as the TSO may reasonably notify to each Generator or in the form published on the TSO website and/or each Generator Aggregator from time to time,

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containing the ~~[GSDPs/Operating Characteristics/Contracted~~**Technical** 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~~**submitted** under the TSC, the ~~Generator must submit a~~ **[GSDPs/Operating Characteristics/Contracted Parameters] Notice** ~~under this SDC1.~~**User must notify the TSO.**

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

[Note: Please see related provisions on Standing Technical Offer Data under SDC1.4.4.7 (a)]

(b)

Flexibility:

- (i) In the case of any ~~[GSDPs/ Operating Characteristics/ Contracted~~**Technical** Parameters] as to which the **Generator and/or Generator Aggregator** 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 and/or Generator Aggregator** of the reasons for such flexibility request in such degree of detail as the TSO considers reasonable in the circumstances.
- (iii) If the **Generator and/or Generator Aggregator** 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~~**Technical** Parameters] **Notice** accordingly. In any event, the TSO may require such further information on the revision as is reasonable and the **Generator and/or Generator Aggregator** must give the TSO such information as soon as reasonably practicable.

SDC1.4.4.2

Additional Grid Code Characteristics Notice

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The following items are required to be submitted by each **User**, with the exception of **Aggregators**, 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~~ **Technical Parameters**] for each of the **CCGT Modules** within it.

[Note: Please note that in relation to Hydro Units (e.g run of river Hydro Units), further consideration is being given to also referring to the individual Dispatch of the separate units of a Facility and to the information which would be required in relation to these units.]

- (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~~ the treatment of dual fuels is being considered further.]

- (c) [Export Adjustment Factors]

- (d) *In the case of NI PPA Generation, the requirement for a Generator to submit a [Technical Parameters] Notice to the TSO under SDC1.4.4.1 (a) also includes a requirement to provide any revisions to the [Technical Parameters] compared with the contracted GSDPs.*

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

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~~ 4.6.3 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** and/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

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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~~**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** 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 SDC1.4.4.4(a), and the **Generator** must then submit a [~~GSDPs/ Operating Characteristics/ Contracted~~**Technical 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~~WFPS** 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. The provisions of this paragraph also apply to Interconnector Owners in relation to their Interconnector Units.

- (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**

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- (a) Each **Generator, Pumped Storage Generator, Interconnector Import User** ~~and~~, **Dispatchable Demand Customer, Generator Aggregator and Demand Side Unit 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** ~~and~~, each of **its Demand Side Units, [its Generating Units taken in aggregation] and [its Demand Side Units taken in aggregation]** (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, either directly or by means of an Intermediary on its behalf, Commercial Offer Data** in accordance with the **TSC**. A **Generator and/or Generator Aggregator** may satisfy this obligation by submitting, **either directly or by means of an Intermediary on its behalf, 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.]*~~

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

- (b) Each **Generator** shall in respect of each of its **Energy Limited Hydro Units** submit an **Energy Target** instead of a ~~[Price Set]~~ **the 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**.

[Note: References to Ancillary Services Price for secondary fuel are being considered.]

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. **Revisions may not be made to an Availability Notice submitted by an Interconnector User following Gate Closure.**
- (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**

~~[13.03.07](#)~~
~~[\(22034499.06\)](#)~~
[20.04.07](#)
[\(22034499.07\)](#)

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~~**Technical Parameters]**: If any of the data submitted to the **TSO** under SDC1.4.4.1 to SDC1.4.4.4 changes, a **Generator** and, where relevant, a **Generator Aggregator**, 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~~**Technical 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~~**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 **Generator** and/or **Generator Aggregator** 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~~as the **TSO** may reasonably notify to each **User** from time to time.

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

SDC1.4.4.7 (a) Defaults:

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(22034499.06)]~~
[20.04.07
(22034499.07)]

~~*[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****Technical 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, and where relevant, the Generator Aggregator** shall be deemed to have submitted an **Availability Notice** by **Gate Closure** stating that the **Availability** of the relevant **CDGU and/or, Controllable WFPS and/or the Generating Units represented by a Generator Aggregators taken in aggregation** 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 South** than in **Northern Ireland the North** at present.]*~~
- (iii) Insofar as not revised, the applicable **Standing Technical Offer Data** for ~~**[GSDPs/ Operating Characteristics/ Contracted**~~**Technical 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** **Unit defaults** here.]*~~

- (b) As a general requirement, the **Generator and, where relevant, the Generator Aggregator,** must ensure that the data in any **Availability Notice**, ~~**[GSDPs/ Operating Characteristics/ Contracted**~~**Technical 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.]*~~

~~13.03.07
(22034499.06)~~
20.04.07
(22034499.07)

- SDC1.4.4.8 [(a) Telephone Submission: Where this SDC1 requires a **Generator or Generator Aggregator** 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 or the Generator Aggregator** 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.]

[Note: Please note the wording at SDC1.4.4.8 is being considered further.]

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** and/or Generator Aggregator and/or Demand Side Unit Aggregator 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 by the TSO in conjunction with the Other TSO 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,~~ Demand Side Unit, Generator Aggregator, Demand Side Unit Aggregator or Interconnector Unit tranche 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],~~ Demand Side Unit, Generator Aggregator, Demand Side Unit Aggregator or Interconnector Unit Price Set at the head of the **Merit Order** will be that which has the lowest ~~[Incremental]~~ incremental Price per MWh}. Each **CDGU**, ~~Controllable WFPS,~~ **Pumped Storage Plant Demand Tranche** ~~and/or Demand Side Unit,~~ Demand Side Unit, Generator Aggregator, Demand Side Unit

~~[13.03.07
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[20.04.07
(22034499.07)]

Aggregator or Interconnector Unit tranche 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.]*~~ approach taken regarding the Merit Order is consistent with the current SONI and GB Grid Codes as well as the TSC.

SDC1.4.5.3 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:

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

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

- (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** Limits for **Hydro Units**] and the values of their [~~GSDPs/~~ Operating Characteristics/ Contracted Technical 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 wording of paragraph (vi) above is being considered further.]*~~

- (vii) the **Start-Up Price** of each **CDGU** and/or **Controllable WFPS**;
- (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;

~~13.03.07
(22034499.06)~~
20.04.07
(22034499.07)

[Note: The above paragraph is a “lift over” from current Grid Codes provisions, which we believe are sufficient as currently drafted.]

- (x) other matters to enable the TSO to meet its **Licence Standards** *in Northern Ireland or Planning Standards under PC.7 in the Republic of Ireland*;
- (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];*
[Note: Please note that the above paragraph applies to Northern Ireland only and that further consideration is being given to it.]
- (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; and
- (xix) ~~[Transmission losses]; and~~ ~~(xx)~~
Unconstrained Indicative Market Schedule for **Meyleany External Interconnection** only.

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

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**, **Demand Side Units**, **Generator Aggregator** and/or such **Demand Side Units** **Unit Aggregator** which have been declared **Available** in an **Availability Notice** (and the equivalents on the **Other Transmission System**):

~~[13.03.07
(22034499.06)]~~
[20.04.07
(22034499.07)]

[Note: Please note as indicated above that Pumped Storage Generation is included in the definition of CDGU. Please also note that further consideration is being given as to how Hydro Units will be scheduled.]

- (i) in accordance with the **Merit Order**, ~~starting with the~~ **CDGU, Controllable WFPS, Pumped Storage Plant Demand, Demand Side Units, Generator Aggregator** and/or such **Demand Side Unit Aggregator 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/or Generator Aggregators and~~ variation in Demand from **Pumped Storage Plant Demand, Demand Side Units** and **Demand Side Units Unit Aggregators**) 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, Generator Aggregator and Demand Side Unit Aggregator**) the forecast **Demand** (derived under OC1 of the ~~SONI~~ **Grid Code** and ~~EirGrid~~ **the Other Grid Code**) together with such margin of reserve as the **TSO** shall consider to be appropriate; and]

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

- (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~~ **Technical Parameters**] of **CDGUs** and/or **Controllable WFPSs** ~~WFPS~~ and/or **Generator Aggregators** [and **Demand** bidders/ **Demand Side Units Aggregators**], notified to the **TSO** after the commencement of the **Scheduling** process;
- (b) changes to ~~NI~~ **System** **Demand** forecast(s) on the Island of Ireland;
- (c) [changes to ~~Wind Forecasts~~ **wind power forecasts on the Island of Ireland**];
- (d) changes to ~~NI~~ **NI System and ROI System/Transmission System** constraints, emerging from the necessarily iterative process of **Scheduling** and network security assessment;

~~13.03.07~~
~~(22034499.06)~~
20.04.07
(22034499.07)

[Note: The EirGrid Grid Code will be referring here to the 'Transmission System' (being the ROI System) and 'NI System', whereas the SONI Grid Code will be referring to the 'NI System' and 'ROI System'.]

- (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 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 **NI System** and **ROI System/Transmission System** *[Note: See note at (d) above.]* and would therefore require an increase in the **Operating Margin**. Examples of these conditions are:
- (i) unpredicted ~~[NI]~~ **NI System and ROI System/Transmission 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 on the Island of Ireland;
- (iv) severe weather conditions imposing high risk to the ~~[NI]~~ **Total NI System and ROI System/Transmission 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~~ references to examples above are being considered further.]*
- (h) known (or emerging) limitations and/or deficiencies of the **Scheduling** process.

[Note: Please note that following comments received, SDC1.4.5.5 has been amended to reflect required co-operation between both TSOs.]

SDC1.4.5.6

When:

- (a) adverse weather is anticipated;
- (b) there is a high risk to the whole or part of the ~~[NI]~~ **NI System and ROI System/Transmission System**;

~~[13.03.07
(22034499.06)]~~
[20.04.07
(22034499.07)]

- (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], **Generator Aggregator and/or Demand Side Unit Aggregator** 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~~ **NI System and RO System/Transmission 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/WFPS, 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~~ **Technical 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, where appropriate, on an individual **CDGU and/or, Controllable WFPS, Pumped Storage Plant Demand or Demand Side Unit, Generator Aggregator and/or Demand Side Unit Aggregator** 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 As explained above, please note that the above paragraph may need to be reconsidered in light of the fuel issues are being considered further.~~]

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

~~13.03.07
(22034499.06)~~
20.04.07
(22034499.07)

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 WFPSs**, **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]~~ [NI System and ROI System/Transmission 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]~~ [\[of System\] 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**.

SDC1.4.5.11 Data Requirements

Appendix A Part 1 sets out the ~~[GSDPs/ Operating Characteristics/ Contracted~~ [Technical Parameters](#) for which values are to be supplied by a **Generator** [and, where relevant, by a Generator Aggregator](#) 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**.

~~[13.03.07
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[\[20.04.07
\(22034499.07\)\]](#)

SDC1 – APPENDIX A

[Note: Please note that ~~the insertion of other factors~~ this Appendix A is being considered further, including the applicability of technical parameters to aggregators.]

1. Generation Scheduling and Dispatch Parameters

Variable	Applies to
<u>[Minimum on time / Minimum Up-Time]</u>	<u>All Generating Units, except Autonomous Generating Units, Generating Units represented by a Generator Aggregator and Demand Side Units</u>
<u>[Minimum off time / Minimum Down-Time]</u>	<u>All Generating Units, except Autonomous Generating Units, Generating Units represented by a Generator Aggregator and Demand Side Units</u>
Minimum on time <u>[Maximum On Time]</u>	All Generating Units, except Autonomous Generating Units, <u>Generating Units represented by a Generator Aggregator</u> and Demand Side Units
Minimum off time <u>[Maximum Down Time]</u>	All Generating Units, except Autonomous Generating Units, <u>Generating Units represented by a Generator Aggregator</u> and Demand Side Units
Synchronous Start-Up Time Hot	All Generating Units, except Autonomous Generating Units, <u>Generating Units represented by a Generator Aggregator</u> and Demand Side Units
Synchronous Start-Up Time Warm	All Generating Units, except Autonomous Generating Units, <u>Generator Aggregators' Generating Units</u> and Demand Side Units
Synchronous Start-Up Time Cold	All Generating Units, except Autonomous Generating Units, <u>Generating Units represented by a Generator Aggregator</u> and Demand Side Units
Time to Synchronise	All Generating Units, except Autonomous Generating Units, <u>Generating Units represented by a Generator Aggregator</u> 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, <u>Generating Units represented by a Generator Aggregator</u> and Demand Side Units

~~[13.03.07
(22034499.06)]~~
[20.04.07
(22034499.07)]

Variable	Applies to
Block Load Hot	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Block Load Warm	All Generating Units , except Autonomous Generating Units and , Generating Units represented by a Generator Aggregator and Demand Side Units
Deload Break Point	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Deloading Rate 1	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Deloading Rate 2	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Dwell Time 1	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Dwell Time 2	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Dwell Time 3	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Dwell Time Trigger Point 1	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Dwell Time Trigger Point 2	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Dwell Time Trigger Point 3	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units

~~13.03.07~~
~~(22034499.06)~~
[20.04.07](#)
[\(22034499.07\)](#)

Variable	Applies to
End Point of Start Up Period	Demand Side Units All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Load Up Break Point Cold (1)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Load Up Break Point Cold (2)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Load Up Break Point Hot (1)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Load Up Break Point Hot (2)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Load Up Break Point Warm (1)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Load Up Break Point Warm (2)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Loading Rate Cold (1)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Loading Rate Cold (2)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Loading Rate Cold (3)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Loading Rate Hot (1)	All Generating Units , except Autonomous Generating Units , Generating Units

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[20.04.07](#)
[\(22034499.07\)](#)

Variable	Applies to
Loading Rate Hot (2)	<p data-bbox="810 271 1377 331">represented by a Generator Aggregator and Demand Side Units</p> <p data-bbox="810 344 1377 472">All Generating Units, except Autonomous Generating Units, Generating Units represented by a Generator Aggregator and Demand Side Units</p>
Loading Rate Hot (3)	<p data-bbox="810 495 1377 618">All Generating Units, except Autonomous Generating Units, Generating Units represented by a Generator Aggregator and Demand Side Units</p>
Loading Rate Warm (1)	<p data-bbox="810 640 1377 763">All Generating Units, except Autonomous Generating Units, Generating Units represented by a Generator Aggregator and Demand Side Units</p>
Loading Rate Warm (2)	<p data-bbox="810 786 1377 909">All Generating Units, except Autonomous Generating Units, Generating Units represented by a Generator Aggregator and Demand Side Units</p>
Loading Rate Warm (3)	<p data-bbox="810 931 1377 1055">All Generating Units, except Autonomous Generating Units, Generating Units represented by a Generator Aggregator and Demand Side Units</p>
Maximum number of on Load cycles per 24 hour period, together with the maximum Load increases involved	<p data-bbox="810 1077 1377 1200">All Generating Units, except Autonomous Generating Units, Generating Units represented by a Generator Aggregator and Demand Side Units</p>
Minimum Generation	<p data-bbox="810 1223 1377 1346">All Generating Units, except Autonomous Generating Units, Generating Units represented by a Generator Aggregator and Demand Side Units</p>
Maximum Generation	<p data-bbox="810 1368 1377 1420">All Generating Units, except Autonomous Generating Units and Demand Side Units</p>
Ramp Down Break Point 1	<p data-bbox="810 1442 1377 1494">All Generating Units, except Autonomous Generating Units and Demand Side Units</p>
Ramp Down Break Point 2	<p data-bbox="810 1516 1377 1568">All Generating Units, except Autonomous Generating Units and Demand Side Units</p>
Ramp Down Break Point 3	<p data-bbox="810 1590 1377 1641">All Generating Units, except Autonomous Generating Units and Demand Side Units</p>
Ramp Down Break Point 4	<p data-bbox="810 1664 1377 1715">All Generating Units, except Autonomous Generating Units and Demand Side Units</p>
Ramp Down Rate 1	<p data-bbox="810 1738 1377 1816">All Generating Units, except Autonomous Generating Units and Demand Side Units</p>

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[20.04.07](#)
[\(22034499.07\)](#)

Variable	Applies to
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 , Generator Aggregators' Generating Units and Demand Side Units
Soak Time Cold (2)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Soak Time Trigger Point Cold (1)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Soak Time Trigger Point Cold (2)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units

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[20.04.07](#)
[\(22034499.07\)](#)

Variable	Applies to
Soak Time Hot (1)	Demand Side Units All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Soak Time Hot (2)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Soak Time Trigger Point Hot (1)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Soak Time Trigger Point Hot (2)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Soak Time Warm (1)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Soak Time Warm (2)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Soak Time Trigger Point Warm (1)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Soak Time Trigger Point Warm (2)	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Hot Cooling Boundary	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Warm Cooling Boundary	All Generating Units , except Autonomous Generating Units , Generating Units represented by a Generator Aggregator and Demand Side Units
Under Test Start Date	Generating Units Under Test only

~~13.03.07~~
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[20.04.07](#)
[\(22034499.07\)](#)

Variable	Applies to
Under Test End Date	Generating Units Under Test only
Forecast Availability <u>Minimum Output</u> Profile for each Trading Period in the Optimisation Time Horizon	All Generating Units , except Autonomous Generating Units , <u>Generating Units represented by a Generator Aggregator</u> and Demand Side Units
Forecast Minimum Output <u>Stable</u> <u>Generation</u> Profile for each Trading Period in the Optimisation Time Horizon	All Generating Units , except Autonomous Generating Units , <u>Generating Units represented by a Generator Aggregator</u> 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 <u>Generating Units Controllable WFPSs</u> only
Maximum Reservoir Capacity	Pumped Storage Units only
Minimum Reservoir Capacity	Pumped Storage Units only
Pumping capacity (Other relevant technical parameters)	Pumped Storage Units only
Energy Limit	All Generating Units , except Autonomous Generating Units and Demand Side <u>Generating Units represented by a Generator Aggregator</u>
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, <u>except Demand Side Unit Aggregators' Units</u>
Max Ramp Up Rate	Demand Side Units only, <u>except Demand Side Units represented by a Demand Side Unit Aggregator</u>
Minimum Down Time	Demand Side Units only, <u>except Demand Side Units represented by a Demand Side Unit Aggregator</u>
Maximum Down Time	Demand Side Units only, <u>except Demand Side Units represented by a Demand Side Unit Aggregator</u>
Aggregate <u>Interconnector</u> Ramp Rate	Interconnector Administrator only
Interconnector Unit Capacity Holding Data	Interconnector Administrator only
Maximum Interconnector Unit Import Capacity	Interconnector Units only

~~[13.03.07](#)~~
~~[\(22034499.06\)](#)~~
[20.04.07](#)
[\(22034499.07\)](#)

Variable	Applies to
Maximum Interconnector Unit Export Capacity	Interconnector Units only
Short Term Maximisation Capability	All Generating Units except Demand Side Units represented by a Demand Side Unit Aggregator , Autonomous Generating Units, Generating Units represented by a Generator Aggregator , 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, except Generating Units represented by a Generator Aggregator
Sustained Response Capability	All CDGUs, except Generating Units represented by a Generator Aggregator
Two shifting limitation (limitation on the number of Start-ups per Trading Day)	All CDGUs, except Generating Units represented by a Generator Aggregator
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 Generating Units represented by a Generator Aggregator
Maximum number of changes to the [Dispatched Fuel] per 24 hour period	All CDGUs, except Generating Units represented by a Generator Aggregator
Maximum quantity of oil in “ready-use tanks” and associated pipework	All CDGUs, except Generating Units represented by a Generator Aggregator
Maximum number of changes to the [Designated Fuel] per 24 hour period	All CDGUs, except Generating Units represented by a Generator Aggregator
Minimum notice to change the [Designated Fuel]	All CDGUs, except Generating Units represented by a Generator Aggregator
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 Generating Units represented by a Generator Aggregator
Declared Maximisation Capacity	All CDGUs which are Open Cycle Gas Turbines or CCGTs , except Generating Units represented by a Generator Aggregator
Time between De-Synchronising different	All CDGUs, except Generating Units

~~13.03.07
(22034499.06)~~
[20.04.07](#)
[\(22034499.07\)](#)

Variable

CDGUs in a Power Station which, in the case of Coolkeeragh Power Station only, shall be stated for both paired and single **CDGUs**.

Applies to

[represented by a Generator Aggregator](#)

[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

Black Start Capability (yes/no)

Applies to

[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator](#)

[\[Declared Reactive Power \(Consumption\)\]](#)

[\[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator\]](#)

[\[Declared Reactive Power \(Production\)\]](#)

[\[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregators\]](#)

Declared POR

[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator](#)

Declared SOR

[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator](#)

Declared TOR1

[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator](#)

Declared TOR2

[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator](#)

Declared Replacement Reserve

[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator](#)

Minimum MW for POR

[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator](#)

Minimum MW for SOR

[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator](#)

Minimum MW for TOR1

[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator](#)

~~[13.03.07](#)~~
~~[\(22034499.06\)](#)~~
[20.04.07](#)
[\(22034499.07\)](#)

Variable	Applies to
Minimum MW for TOR2	Aggregator CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator
Minimum MW for Replacement Reserve	CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator
POR Decrement Rate	CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator
SOR Decrement Rate	CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator
TOR1 Decrement Rate	CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator
TOR2 Decrement Rate	CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator
Replacement Reserve Decrement Rate	CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator
Governor Droop	CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator
[Correction Factor (Mvar Consumption)]	[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator]
[Correction Factor (Mvar Production)]	[CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator]
Export Adjustment Factor 1	CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator
Export Adjustment Factor 2	CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator
Unit Loss Factor	CDGUs, excluding Dispatchable WFPSs and Generating Units represented by a Generator Aggregator

~~[13.03.07](#)~~
~~[\(22034499.06\)](#)~~
[20.04.07](#)
[\(22034499.07\)](#)

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(22034499.07)]

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~~**Technical 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~~**Technical Parameters**] **Notice** which declares the **Availability** or [~~GSDPs/ Operating Characteristics/ Contracted~~**Technical 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~~**Technical Parameters**] in respect of a **NI PPA CDGU** and/or **Controllable WFPS**.*

~~13.03.07~~
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20.04.07
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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.]

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