

MODIFICATION RECOMMENDATION

FORM MPID 223 – Failure to Follow Synchronising Instruction



RECOMMENDATION TO CER BY EIRGRID OF MODIFICATION TO GRID CODE.

ABSTRACT / TITLE OF MODIFICATION	MPID 223 – Failure to Follow Synchronising Instruction
MODIFICATION NUMBER	MPID 223
RECOMMENDED AT GCRP MEETING NUMBER	40
LIST OF GRID CODE SECTION(S) AFFECTED BY PROPOSED MODIFICATION:	SDC2.4.2.11 SDC2.A.4.1 DEFINITIONS
CURRENT GRID CODE VERSION :	5
MODIFICATION DESCRIPTION Overview THE REASON FOR THE RECOMMENDED MODIFICATION	If this modification MPID 223 is not approved there could be potential on-going confusion in the interpretation of the obligations of Generators with regard to 'Failure to Follow Notice to Synchronise', and differing implementation of Failure to Follow Notice to Synchronise in Ireland and Northern Ireland.

History of Progression through GCRPs, Working Group and/or Consultation

Grid Code Modification Proposal MPID 223 was presented by EirGrid and SONI at the Joint Grid Code Review Panel on 23rd February 2012 in Belfast, relating to changes to the Scheduling and Dispatch Code (SDC) that arise as a result of clarifications needed to the "Failure to Follow Notice to Synchronise".

Proposals for amendments to the Grid Codes needed as a result of a. above were discussed at Joint Grid Code Review Panel Meetings on 23rd February and 24th May 2012 and were consulted upon from 23rd May 2012 until 28th June 2012.

On 28th September 2012 EirGrid and SONI (the TSOs) issued a joint response to the consultation, which was published on the EirGrid and SONI websites [here](#). In this response the TSOs addressed the points raised by the respondents to the consultation.

On 28th September 2012, the TSOs sought the approval of:

- The Commission for Energy Regulation for the specified changes to the EirGrid Grid Code
- The Northern Ireland Authority for Utility Regulation for the specified changes to the SONI Grid Code

In May 2013 CER and UREGNI wrote to EirGrid and SONI and UREGNI requesting the TSOs consider a number of specific points for discussion with the Grid Code Review Panels prior to resubmitting the modification proposals (CER letter attached).

On 10th June 2014, EirGrid and SONI responded to CER and UREGNI with a report [here](#), showing that there is no evidence to suggest a negative or positive impact on the cost of consumption, as a result of implementation of MPID 223. At the JGCRP meeting on 11th June 2014, it was noted that the TSOs had issued this report, on Failure to Follow Synchronising Instruction, to the Regulators. The CER requested that this item (MPID 223) be brought forward to the November 2014 JGCRP for final discussion.

EirGrid presented the modification proposal MPID 223 to the Grid Code Review Panel members at a meeting held in the Hilton Hotel in Belfast on the 12th November 2014. It was agreed the modification would be sent to the CER for approval along with objections.

<p>Summary Note of any Objections to the Recommended change from GCRP Members or Consultation Responses</p>	<p>On 28th September 2012 EirGrid and SONI (the TSOs) issued a joint response to the consultation, which was published on the EirGrid and SONI websites here. In this response the TSOs addressed the points raised by the respondents to the consultation.</p> <p>There were no responses received to the EirGrid report here, issued on 10th June 2014, in response to queries raised by CER and UREGNI with EirGrid and SONI in May 2013.</p> <p>At the Grid Code Review Panel Meeting on 12th November 2014 Paul Doyle ESB, stated that:</p> <ul style="list-style-type: none"> • penalties should be proportionate to cost • 15 minutes is late not a fail • there is a question on the report by the TSO: <ul style="list-style-type: none"> ○ only two of seven cases were in merit ○ as the biggest impact will be seen when analysing in merit units, should the report not be based on units in merit ○ results were stated to be inconclusive in the report ○ the TSO stated that there is no impact on SMP, how is this possible if the results were inconclusive. ○ Rather than do more modelling on SMP ESB looked into historical data, in particular Moneypoint Unit 2; Issued Fail to Sync in July, NCC brought to zero, immediately after three units were increased but within the next couple of hours two units including Poolbeg were brought into the market schedule and it would appear that this is because Moneypoint was not available • JOS requested that PD send his report to the TSO and it would be attached to the recommendation which will be sent to the CER. • JOS stated that it is not possible for individual generators to have all the required facts as to why a dispatch decision is made. The main purpose of the modification is to clarify what a fail to sync means and is directly related to system security (not economics that is a secondary consideration). The TSO needs to be confident that a generation unit will reliably synchronise at the time it agreed within a short window, when dispatched. Therefore the Chairperson does not believe the ESBPG report material adds anything to the substantive arguments already discussed and presented in the original modification.
<p>Outcome of any GCRP Meeting Actions Relating to the Recommended Modification</p>	<p>Paul Doyle, ESB to send report to TSO, detailing a specific fail sync incident of Moneypoint Unit 2 in July 2014 and the impact on other ESB Generation Units</p> <p>TSO to send recommendation paper (this paper) to the CER to include objections and report from Paul Doyle (attached).</p>

<p>Implication of not implementing the Modification</p>	<p>Potential on-going confusion in the interpretation of the obligations of Generators with regard to 'Failure to Follow Notice to Synchronise', and differing implementation of Failure to Follow Notice to Synchronise in Ireland and Northern Ireland.</p>
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RED-LINE VERSION

SDC2.4.2.11

Action Required from Users

- (a) Each **User** will comply in accordance with SDC2.4.2.12 with all **Dispatch Instructions** given by the **TSO** unless the **User** has given notice to the **TSO** under the provisions of SDC2.4.2.10 regarding non-acceptance of **Dispatch Instructions**.
- (b) When complying with **Dispatch Instructions** for a **CCGT Installation** a **Generator** will operate its **CCGT Units** in accordance with the applicable **CCGT Installation Matrix**.
- (c) Where the **TSO** issues a **Synchronising** time to a **Generator** for a specific **CDGU** (~~other than an **Open Cycle Gas Turbine**~~) and the **Generator** identifies that such **CDGU** will not be **Synchronised** within ~~-15/+15~~ **+/- 10** minutes of the instructed time, the **Generator** must immediately (at the time the discrepancy is identified) inform the **TSO** of the situation and estimate the new **Synchronising** time.

~~(d) If the **Synchronising** time of the **CDGU** (other than an **Open Cycle Gas Turbine**) is different from the instructed time by more than 15 minutes but less than 1 hour, this will constitute a **Short Notice Re-declaration** by the **CDGU** for that **Generator**.~~

(d) If the **CDGU** has not synchronised within 15 minutes of the **Synchronising** time in the original **Notice to Synchronise** the **TSO** will issue a **Failure to Follow Notice to Synchronise** and the **Generator** shall re-declare, by **Electronic Interface** or by other form as the **TSO** may reasonably notify to each **User** from time to time, its **Availability** to OMW for the **CDGU** effective at the **Synchronising** time in the original **Notice to Synchronise**.

~~(e) If the **Synchronising** time of the **CDGU** (other than an **Open Cycle Gas Turbine**) is different from the instructed time by more than 1 hour, this will constitute a **Re-declaration** for the **CDGU** by the **Generator**.~~

SDC2.A.4.1 **CDGU Synchronising**

SDC2.A.4.1.1 In this instance, for **CDGUs**, the **Dispatch Instruction** issue time will always have due regard for the ~~Synchronising time~~ **Synchronous Start-Up Time (for cold, hot, warm states)** declared to the **TSO** by the **Generator** as a **Technical Parameters** or as part of **Additional Grid Code Characteristics Notice** data.

The instruction will follow the form, for example:

"Time 1300 hours. Unit 1, **Synchronise** at 1600 hours"

In relation to an instruction to **Synchronise**, the ~~start~~ **Synchronising** time referred to in SDC2.A.2.2 will be deemed to be the time at which **Synchronisation** is to take place.

SDC2.A.4.1.2 Unless a **Loading** programme is also given at the same time it will be assumed that the **CDGU(s)** are to be brought to **Minimum Generation** and on the **Generator** reporting that the unit has **Synchronised** a further **Dispatch Instruction** will be issued.

SDC2.A.4.1.3 When a **Dispatch Instruction** for a **CDGU** to **Synchronise** is cancelled (ie. a **Cancelled Start**) before the unit is **Synchronised**, the instruction will follow the form, for example:

"Time 1400 hours. Unit 1, cancel **Synchronising** instruction"

SDC2.A.4.1.4 If a **CDGU** fails to **Synchronise** more than ~~5-15~~ minutes after the **Synchronising** time specified in a **Notice to Synchronise**, the **TSO** ~~may~~ **will** issue a **Failure to Follow Notice to Synchronise Instruction**. If a **Generator** requests to **Synchronise** a **CDGU** more than 15 minutes before the **Synchronising** time set out in the **Notice to Synchronise**, the **TSO** may agree to the **CDGU** being **Synchronised** at that time or request that the **CDGU** be **Synchronised** at the original ~~Notice to Synchronise~~ **Synchronising** time. If the **TSO** accepts the request to **Synchronise** more than 15 minutes before the original ~~Notice to Synchronise~~ **Synchronising** time, the **TSO** will not amend the original ~~Notice to Synchronise~~ **Synchronising** time but the **Generator** shall be entitled to **Synchronise** the **CDGU**, and the **CDGU** shall be deemed to have met the original ~~Notice to Synchronise~~ **Synchronising** time.

- SDC2.A.4.1.5 When in respect of a **CDGU** a **Generator** receives a **Failure to Follow Notice to Synchronise Instruction** the original **Notice to Synchronise** is deemed never to have been issued and the **CDGU** is not entitled to **Synchronise**. The **TSO** will then decide whether or not to instruct again the **Generator** to **Synchronise** the **CDGU**, and will notify the **Generator** in relation to the **CDGU** accordingly.
- SDC2.A.4.1.6 When a **CDGU** trips before reaching **Minimum Generation** a **Failure to Reach Minimum Generation Instruction** will be issued. The **Failure to Reach Minimum Generation Instruction** will negate the **Notice to Synchronise** received by the **CDGU**. The **TSO** will then decide whether or not to instruct the **CDGU** to **Synchronise** again, and will notify the **Generator** in relation to that **CDGU** accordingly.
- SDC2.A.4.1.7 The **TSO** may request a **CDGU** to endeavour to **Synchronise** earlier than the declared **Synchronous Start Up Time** (for cold, hot, warm states). In this event the **TSO** will issue the **Dispatch Instruction** with a **Synchronising** time that reflects the **CDGU** declared **Synchronous Start Up Time** (for cold, hot, warm states) accompanied by a written or verbal request that the unit **Synchronise** as soon as possible. If the **CDGU Synchronises** ahead of the **Synchronising** time in the **Dispatch Instruction** the **TSO** will cancel that **Dispatch Instruction** and issue a new **Dispatch Instruction** with a **Synchronising** time equal to the actual time the unit **Synchronised**.

Removal of the Definition:**Short Notice Re-declaration** _____

~~A **Re-declaration** where changes apply to values relating to **Trading Periods** occurring within 4 hours of receipt by the **TSO** of the **Re-declaration**.~~

GREEN-LINE VERSIONSDC2.4.2.11 **Action Required from Users**

- (a) Each **User** will comply in accordance with SDC2.4.2.12 with all **Dispatch Instructions** given by the **TSO** unless the **User** has given notice to the **TSO** under the provisions of SDC2.4.2.10 regarding non-acceptance of **Dispatch Instructions**.
- (b) When complying with **Dispatch Instructions** for a **CCGT Installation** a **Generator** will operate its **CCGT Units** in accordance with the applicable **CCGT Installation Matrix**.
- (c) Where the **TSO** issues a **Synchronising** time to a **Generator** for a specific **CDGU** and the **Generator** identifies that such **CDGU** will not be **Synchronised** within **-15/+15** minutes of the instructed time, the **Generator** must immediately (at the time the discrepancy is identified) inform the **TSO** of the situation and estimate the new **Synchronising** time.
- (d) If the **CDGU** has not synchronised within 15 minutes of the **Synchronising** time in the original **Notice to Synchronise** the **TSO** will issue a **Failure to Follow Notice to Synchronise** and the **Generator** shall re-declare, by **Electronic Interface** or by other form as the **TSO** may reasonably notify to each **User** from time to time, its **Availability** to OMW for the **CDGU** effective at the **Synchronising** time in the original **Notice to Synchronise**.

SDC2.A.4.1 **CDGU Synchronising**

SDC2.A.4.1.1 In this instance, for **CDGUs**, the **Dispatch Instruction** issue time will always have due regard for the **Synchronous Start-Up Time** (for cold, hot, warm states) declared to the **TSO** by the **Generator** as a **Technical Parameters** or as part of **Additional Grid Code Characteristics Notice** data.

The instruction will follow the form, for example:

"Time 1300 hours. Unit 1, **Synchronise** at 1600 hours"

In relation to an instruction to **Synchronise**, the **Synchronising** time referred to in SDC2.A.2.2 will be deemed to be the time at which **Synchronisation** is to take place.

SDC2.A.4.1.2 Unless a **Loading** programme is also given at the same time it will be assumed that the **CDGU(s)** are to be brought to **Minimum Generation** and on the **Generator** reporting that the unit has **Synchronised** a further **Dispatch Instruction** will be issued.

SDC2.A.4.1.3 When a **Dispatch Instruction** for a **CDGU** to **Synchronise** is cancelled (ie. a **Cancelled Start**) before the unit is **Synchronised**, the instruction will follow the form, for example:

"Time 1400 hours. Unit 1, cancel **Synchronising** instruction"

SDC2.A.4.1.4 If a **CDGU** fails to **Synchronise** more than **15** minutes after the **Synchronising** time specified in a **Notice to Synchronise**, the **TSO** will issue a **Failure to Follow Notice to Synchronise Instruction**. If a **Generator** requests to **Synchronise** a **CDGU** more than 15 minutes before the **Synchronising** time set out in the **Notice to Synchronise**, the **TSO** may agree to the **CDGU** being **Synchronised** at that time or request that the **CDGU** be **Synchronised** at the original **Synchronising** time. If the **TSO** accepts the request to **Synchronise** more than 15 minutes before the original **Synchronising** time, the **TSO** will not amend the original **Synchronising** time but the **Generator** shall be entitled to **Synchronise** the **CDGU**, and the **CDGU** shall be deemed to have met the original **Synchronising** time.

- SDC2.A.4.1.5 When in respect of a **CDGU** a **Generator** receives a **Failure to Follow Notice to Synchronise Instruction** the original **Notice to Synchronise** is deemed never to have been issued and the **CDGU** is not entitled to **Synchronise**. The **TSO** will then decide whether or not to instruct again the **Generator** to **Synchronise** the **CDGU**, and will notify the **Generator** in relation to the **CDGU** accordingly.
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