

GC0161 – Urgent Modification - Changes to OC6 to allow for site protection and demand disconnect rotation

26 June 2023

Online Meeting via Teams

WELCOME



Agenda

| # | Topics to be discussed | Lead |
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| 1. | Introductions | Chair |
| 2. | Review and agree Terms of Reference | All |
| 3. | Draft Legal Text, Questions and Discussion | Proposer |
| 4. | Review Draft Workgroup Consultation Document | All |
| 5. | Review Timeline | Chair |
| 6. | Any Other Business | Chair |
| 7. | Next Steps | Chair |



Terms of Reference

Milly Lewis – ESO Code Administrator

GC0161 - Terms of Reference

Workgroup Term of Reference

- a) Implementation and costs;
- b) Review draft legal text should it have been provided. If legal text is not submitted within the Grid Code Modification Proposal the Workgroup should be instructed to assist in the developing of the legal text;
- c) Consider whether any further Industry experts or stakeholders should be invited to participate within the Workgroup to ensure that all potentially affected stakeholders have the opportunity to be represented in the Workgroup. Demonstrate what has been done to cover this clearly in the report; and
- d) Consider EBR implications
- e) Ensure that the scope of work identified is achievable within the timeframe outlined in the Ofgem Urgency decision letter.
- f) Consider whether the solution has consequences on OC6 that would prevent the intention of the modification being achieved.
- g) Ensure that the use of the term 'any one' in OC6.2.1 is understood.
- h) In OC6.2.1 consider whether the present requirement for NGESO not to discriminate between any groups of Suppliers, Network Operators or Non-Embedded customers should be retained / modified rather than deleted.
- i) Consider the implications for the Distribution Code, including DOC6
- j) Consider cross code implications
- k) Consider interactions with the Electricity Transmission Standard License Conditions



Draft Legal Text, Questions and Discussion

Usman Farooq – National Grid ESO

Grid Code Proposed Legal Text

OC6.1.5 The Electricity Supply Emergency Code as reviewed and published from time to time by the appropriate government department for energy emergencies provides that in certain circumstances consumers are given a certain degree of "protection" when rota disconnections are implemented pursuant to a direction under the Energy Act 1976. ~~No such protection can be given in relation to Demand Control under the Grid Code.~~ No such protection can be given in relation to Demand Control under the Grid Code, except in relation to those Demand Disconnection stages referred to in OC6.5.3(a), where such protection is technically feasible, although, even in these situations, protection cannot be guaranteed.

OC6.5.3(e)

Demand Control initiated by **Demand Disconnection** in relation to those **Demand Disconnection** stages referred to in OC6.5.3(a), certain protections may be given where technically feasible, to pre-designated protected sites in instances where **Demand Control** is implemented on the instructions of **The Company** in accordance with the provisions in OC6.5. The list of pre-designated protected sites is compiled and kept up to date by **Network Operators** in accordance with the terms set out in the Electricity Supply Emergency Code.

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|---------|---|
| OC6.5.3 | <p>(a) Whether a National Electricity Transmission System Warning - High Risk of Demand Reduction or National Electricity Transmission System Warning - Demand Control Imminent has been issued or not:</p> <p>(i) provided the instruction relates to not more than 20 per cent of its total Demand (measured at the time the Demand reduction is required); and</p> <p>(ii) if the instruction relates to less than 20 per cent of its total Demand, is in</p> <ul style="list-style-type: none">two voltage reduction stages of between 2 and 4 percent, each of which can be expected to deliver around 1.5 percent Demand reduction; andup to three Demand Disconnection stages, each of which can reasonably be expected to deliver between four and six percent Demand reduction, <p>each Network Operator will abide by the instructions of The Company, which should specify whether a voltage reduction or Demand Disconnection stage is required; or</p> <p>(iii) if the instruction relates to less than 20 per cent of its total Demand, is in four Demand Disconnection stages each of which can reasonably be expected to deliver between four and six per cent Demand reduction,</p> <p>each Network Operator will abide by the instructions of The Company with regard to Demand reduction under OC6.5 without delay.</p> <p>(b) The Demand reduction must be achieved within the Network Operator's System as far as possible uniformly across all Grid Supply Points (unless otherwise specified in the National Electricity Transmission System Warning - High Risk of Demand Reduction) either by Customer voltage reduction or by Demand Disconnection.</p> <p>(c) Demand Control initiated by voltage reduction shall be initiated as soon as possible but in any event no longer than two minutes from the instruction being received from The Company, and completed within 10 minutes of the instruction being received from The Company.</p> <p>(d) Demand Control initiated by Demand Disconnection shall be initiated as soon as possible <u>but in any event</u> no longer than two minutes from the instruction being received from The Company, and completed within five minutes of the instruction being received from The Company.</p> <p><u>(e) Demand Control initiated by Demand Disconnection in relation to those Demand Disconnection stages referred to in OC6.5.3(a), certain protections may be given where technically feasible, to pre-designated protected sites in instances where Demand Control is implemented on the instructions of The Company in accordance with the provisions in OC6.5. The list of pre-designated protected sites is compiled and kept up to date by Network Operators in accordance with the terms set out in the Electricity Supply Emergency Code.</u></p> <p>(e) Each Network Operator must notify The Company in writing by calendar week 24 each year, for the succeeding Financial Year onwards, whether Demand Control is to be implemented either:</p> <p>i) by a combination of voltage reduction and Demand Disconnection; or</p> <p>ii) Demand Disconnection alone;</p> <p>together with the magnitude of the voltage reduction stages (where applicable) and for Demand Disconnection stages, the demand reduction anticipated. Thereafter, any changes must be notified in writing to The Company at least 10 Business Days prior to the change coming into effect.</p> |
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D Code Proposed Legal Text

DOC6.1.2 This **Distribution Operating Code** deals with the following methods of **Demand Control**:-

- (a) ~~Customer Demand reduction, including Voltage Reduction, initiated by the DNO.~~ Customer voltage reduction initiated by the DNO (other than following an instruction from NGESO);
- (b) Customer Demand reduction by disconnection initiated by the DNO (other than following an instruction from NGESO);
- (~~c~~b) **Customer Demand** reduction instructed by NGESO.
- (~~d~~e) Automatic low frequency **Demand** disconnection.
- (~~e~~d) Emergency manual **Demand** disconnection.

DOC6.1.3 The situation where it is necessary to reduce **Demand** due to Civil Emergencies is dealt with in **Distribution Operating Code**, DOC9.

The Electricity Supply Emergency Code issued by the lead government department for energy emergencies (as amended from time to time) provides that in certain circumstances consumers are given a certain degree of “protection” when rota disconnections are implemented pursuant to a direction under the Energy Act 1976. No such protection can be given under the **Grid Code** or this section of the **Distribution Code**.

except:

- (a) in relation to **Customer Demand** reduction by disconnection initiated by the **DNO** in accordance with DOC6.1.2 (b); and
- (b) in relation to those **Demand** disconnection stages referred to in DOC6.4.3- (a) and DOC6.4.3 (b) (i);

in which case protection may be given, where technically feasible given, to pre-designated protected sites. The list of pre-designated protected sites is compiled and kept up to date by **DNOs** in accordance with the terms set out in the Electricity Supply Emergency Code.

DOC6.4.3 The **DNO** will arrange to have available within the **DNO's Distribution System**, ~~four~~ upto five stages of **Demand Control**.

(a) Where four stages are made available they shall comprise four **Demand** disconnection stages each of which can be reasonably be expected to deliver between four and six percent **Demand** reduction.

(b) Where five stages are made available they shall comprise:

(i) two voltage reduction stages of between 2 and 4 percent, each of which can be expected to deliver around 1.5 percent **Demand** reduction; and

(ii) up to three **Demand** disconnection stages, each of which can reasonably be expected to deliver between four and six percent **Demand** reduction.

~~in integral multiples of between four and six per cent. These stages may include the use of Voltage Reduction and/or other forms of Demand Control determined by the DNO. As stated in DOC6.1.3, protection, where technically feasible, may be given in relation to those Demand disconnection stages referred to in DOC6.4.3.~~



Review Draft Workgroup Consultation

Milly Lewis – ESO Code Administrator



Review Timeline

Milly Lewis – ESO Code Administrator

GC0161 Urgent Timeline - Workgroup

| Milestone | Date | Milestone | Date |
|--|------------------------------|---|---------------------------------------|
| Highlight potential Urgent mod timeline to April Grid Code Review Panel | 27 April 202 | Workgroup 4 - Assess Workgroup Consultation Responses and Workgroup Vote | 07 July 2023 |
| ESO to present initial thinking at GCDF | 03 May 2023 | Workgroup report issued to Panel (3 working days) | 11 July 2023 |
| Provide feedback to Electricity Shortfall Prioritisation Review - Workshop | 04 May 2023 | Panel sign off that Workgroup Report has met its Terms of Reference | 14 July 2023 (Special Panel required) |
| Urgent modification proposal submitted | 22 May 2023 | Code Administrator Consultation (1 calendar month) | 17 July 2023 to 17 August 2023 |
| Modification presented to Panel | 25 May 2023 | Draft Final Modification Report (DFMR) issued to Panel (2 working days) | 22 August 2023 |
| Workgroup Nominations (5 Working Days) | 26 May 2023 to 02 June 2023 | Panel undertake DFMR recommendation vote | 24 August 2023 (existing Panel) |
| Ofgem grant Urgency | 02 June 2023 | Final Modification Report issued to Panel to check votes recorded correctly (<1 working days) | 25 August 2023 (by 11:00) |
| Workgroup 1 – Agree timeline, Terms of Reference and discuss solution | 12 June 2023 | Final Modification Report issued to Ofgem | 25 August 2023 (by 12:00) |
| Workgroup 2 – Refine solution and potential alternatives | 20 June 2023 | Ofgem decision | TBC |
| Workgroup 3 – Refine solution and finalise Workgroup Consultation | 26 June 2023 | Implementation Date | 1 WD after Authority decision |
| Workgroup Consultation (5 working days) | 28 June 2023 to 04 July 2023 | | |



Cross Code Impacts – Distribution Code

Milly Lewis – ESO Code Administrator



Any Other Business

Milly Lewis – ESO Code Administrator



Next Steps

Milly Lewis – ESO Code Administrator