






Alternative Request Proposal Form	At what stage is this document in the process?
<p>Modification potential alternative submitted to:</p> <p>GC0105:</p> <p>Mod Title: System Incidents Reporting</p>	<div> <div>01</div> <div>Proposed Alternative</div> </div> <div> <div>02</div> <div>Proposed Workgroup Alternative</div> </div>
<p>Purpose of Alternative:</p> <p>As per the original - The Grid Code Review Panel has previously received an annual report from National Grid indicating system incidents and reporting unplanned outages of Interconnectors, load or generation connected to transmission or distribution networks. The Grid Code Review Panel felt this was necessary as it helped monitor the effectiveness of the technical requirements in the Grid Code and Distribution Code. The alternative aim is to ensure that what the ESO has delivered in the past can be continued, but not to add additional items in which no customer benefit can be seen, or which would be better placed as an obligation on the TOs.</p>	
<p>Date submitted to Code Administrator: November 2018</p> <p>You are: A Workgroup member</p> <p>Workgroup vote outcome: Formal alternative</p>	

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1 Alternative proposed solution for workgroup review

This alternative was suggested at the workgroup meeting on 16th March 2018 by NGESO.

It highlights one main area of difference to the original proposal. The original proposal includes new requirements and areas of reporting for NGESO which were not in the report as produced previously on an informal basis. The benefit to consumers of these additional items has not been quantified and since this will lead to extra work for which NGESO is not funded, the alternative removes these requirements and instead proposes continuing with the report as has been produced previously.

2 Difference between this proposal and Original

The specific differences are as follows:

Section	Subject	Proposer's Solution	WAGCM
OC3.1.1	High level report content	Incident Report and frequency data report	Incident Report only
OC3.4.1	Reporting frequency	Monthly	Annual
OC3.4.1 (a) (i)	Loss reporting	a loss of infeed or exfeed (import or export including generation, Demand and interconnection) of $\geq 250\text{MW}$;	a loss of Demand $\geq 250\text{MW}$, or a loss of either generation or interconnection of $\geq 600\text{MW}$;
OC3.4.1 (a) (ii)	Frequency excursions	a frequency excursion outside the limits 49.75-50.25Hz;	a frequency excursion reportable in accordance with The Electricity Safety, Quality and Continuity Regulations 2002
OC3.4.1 (a) (iii) A	Faults	a fault on the National Electricity Transmission System which could be linked to the known or reported tripping of 250MW or more	n/a
OC3.4.1 (b) (iii)	Significant event frequency record interval	≤ 1 second	1 second
OC3.4.1 (c)	Event & data reporting additional detail	an outline of progress towards reporting events and associated data on the National Electricity Transmission System including: (i) three phase faults; (ii) three phase to earth faults; (iii) phase to phase faults; (iv) phase to earth faults; (v) the associated voltage dips – durations and spreads; (vi) over-voltages; (vii) under-voltages; (viii) voltage dips of $>50\%$; (ix) lightning strikes.	n/a
OC3.4.2	Communication of reporting,	notify all Electricity Distribution Licence holders and Network	n/a

	additional detail	Operators of every Significant Event and request information to fulfil its duties in OC3.4.1.	
OC3.4.3	Monthly reporting timelines	<p>(a) a data cut-off date of the end of each month for that reporting month;</p> <p>(b) data is collated, reviewed and processed in the subsequent two months for a reporting month;</p> <p>(c) System Incidents Report to be published at latest on the last working day of the second month after each reporting month (in other words the report for January would be published on the last working day of March, and so on) and submitted to the next regular Grid Code Review Panel. For the avoidance of doubt, if there are no incidents arising under OC3.4.1 (a)-(c) a System Incidents Report would, nevertheless, still be published stating that 'No System Incident occurred in month [X]'.</p>	<p>n/a – annual report specified:</p> <p>The Company shall prepare and publish the System Incidents Report annually. The report will be published and submitted to the Grid Code Review Panel in the November following a given year and included as part of the System Operability Framework (SOF) report</p>
OC3.4.4	New section for frequency reporting	<p>The Company shall prepare and publish on the Website the "Historic Frequency Data" monthly, in a spreadsheet form, recording system frequency data at a maximum of one second intervals for the whole month in accordance with the following timescales:</p> <p>(a) a data cut-off date of the end of each month for that reporting month;</p> <p>(b) data is collated, reviewed and processed in the subsequent ten working days after the end of the reporting month;</p> <p>(c) Historic Frequency Data to be published on the eleventh working day after each reporting month (in other words the report for January would be published on the eleventh working day of February, and so</p>	n/a

		on).	

3 Justification for alternative proposal against Grid Code objectives

Impact of the modification on the Applicable Grid Code Objectives:

Relevant Objective	Identified impact
(a) To permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity	None
(b) Facilitating effective competition in the generation and supply of electricity (and without limiting the foregoing, to facilitate the national electricity transmission system being made available to persons authorised to supply or generate electricity on terms which neither prevent nor restrict competition in the supply or generation of electricity);	None
(c) Subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the electricity generation, transmission and distribution systems in the national electricity transmission system operator area taken as a whole;	None
(d) To efficiently discharge the obligations imposed upon the licensee by this license and to comply with the Electricity Regulation and any relevant legally binding decisions of the European Commission and/or the Agency; and	None
(e) To promote efficiency in the implementation and administration of the Grid Code arrangements	Positive

In broad terms this alternative proposal would be a more efficient solution than the original. It keeps more to the principles of the report that NGET have provided in the past since this already meets the majority of the criteria and does not add any significant additional tasks to this.

There is currently no obligation on NGET to provide this report and there is no funding for it in the regulatory settlement. The original proposal does not set out what the information will be used for, what the role of the Grid Code Review Panel is in assessing this information or what the defined benefit of this is that can then be assessed against the cost of continuing to produce it

4 Impacts and Other Considerations

This alternative will mean only the current level of resource is required in NGET to continue producing a report that closely resembles that produced previously. The original proposal will mean more resource is required at NGET to fulfil the additional requirements and lower reporting thresholds

Consumer Impacts

As per the original.

5 Implementation

As above, the costs of producing the report in line with this alternative will not increase. The original proposal will increase costs on NGET above those currently being incurred.

6 Legal Text

Suggested that this text goes into OC3 in the Grid Code

OC3.1 INTRODUCTION

OC3.1.1 **Operating Code No.3 ("OC3")** is concerned with the annual publication by **The Company** of an incident report for the **National Electricity Transmission System**.

OC3.2 OBJECTIVE

OC3.2.1 The objective of **OC3** is for **The Company** to produce an annual report of incidents. The report is important to industry and the **Grid Code Review Panel** as it helps monitor the effectiveness of the technical requirements in the **Grid Code** and **Distribution Code**.

OC3.3 SCOPE

OC3 applies to **The Company**.

OC3.4 SYSTEM INCIDENTS REPORT

OC3.4.1 **The Company** shall prepare and submit to the **Grid Code Review Panel** annually a report titled the "**System Incidents Report**", which shall contain:

- (a) a record of each of the following **Events** on the **National Electricity Transmission System**

- (i) a loss of **Demand** \Rightarrow 250MW, or a loss of either generation or interconnection of \Rightarrow 600MW;
- (ii) a frequency excursion reportable in accordance with The Electricity Safety, Quality and Continuity Regulations 2002
- (iii) a fault on the **National Electricity Transmission System** which (as detailed in section CC6.1.4) is linked to a change in the transmission system voltage of more than
 - I. 400kV: $> +5/-10\%$ for $>15\text{min}$; or
 - II. 275kV or 132 kV: $> +/-10\%$ for $>15\text{min}$;
- (iv) any known demand disconnected \geq 50MW from the **National Electricity Transmission System** or other lesser demand if notified to **The Company**; and
- (v) any **Demand Control** action taken;
- (b) a report of each such Significant Event including the following data in relation to each Significant Event as appropriate and available:
 - (i) the time(s) in hh.mm.ss of the Significant Event and any potentially related occurrences;
 - (ii) any known or reported loss of **Embedded Power Station(s)** with locations and ratings where available;
 - (iii) the frequency record (in table and graphical format) at 1 second intervals for 1 minute before and 1 minute after the Significant Event;
 - (iv) the frequency (to 2 decimal places) immediately before the Significant Event;
 - (v) the frequency (to 2 decimal places) immediately after the Significant Event;
 - (vi) the maximum rate of change of frequency recorded during the Significant Event over a specified time period e.g. 500ms;
 - (vii) where known, the MW of all individual losses or trips related to the Significant Event.
 - (viii) where known, the identity of the **Users** and **Network Operator** of all demand losses or trips related to the Significant Event.
 - (ix) the location of any reported transmission fault on the network diagram and geographically;
 - (x) the extent of any voltage dip associated with the Significant Event;
 - (xi) an estimate of system inertia in MWs at the time of the event along with how it has been calculated; and
 - (xii) any other data available that is of value to gain a clearer understanding of the Significant Event and its potential implications; and

OC3.4.2 To obtain, manage, present, communicate and report the data in OC3.4.1 **The Company** shall:

- (a) present the **System Incidents Report** and the associated data in a spreadsheet;
- (b) maintain an area of the **Website** with a list of all historic **System Incidents Reports** and information on any process required for legitimate parties to obtain the reports (if reports are not available to download); and

OC3.4.3 **The Company** shall prepare and publish the System Incidents Report annually. The report will be published and submitted to the **Grid Code Review Panel** in the November following a given year and included as part of the System Operability Framework (SOF) report.