**OPERATING CODE NO. 3**

**(OC3)**

**SYSTEM INCIDENTS REPORT**

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(This contents page does not form part of the Grid Code)

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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 indicating **Events** and reporting unplanned outages of **Demand**, **Generators** and **External Interconnection**, connected to the transmission or distribution networks. 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 significant events on the **National Electricity Transmission System** (each being a “Significant Event”):

(i) a loss of infeed or exfeed (import or export including generation, demand and interconnection) of =>250MW;

(ii) (as defined in the definition of “**Target Frequency**” in the **Grid Code**) a frequency excursion outside the limits 49.90-50.10Hz;

(iii) a fault on the **National Electricity Transmission System** which:

A. could be linked to the known or reported tripping of any **Power Station**, **DC Converter** or **User System** of 250MW or more (see OC3.4.1(a)(i)); and/or

B. (as detailed in section CC6.1.4 of the Grid Code) is linked to a change in the transmission system voltage of more than

I. 400kV: > +/-5% for >15min; or

II. 275kV or 132 kV: > +/- 10% for >15min;

(iv) any known demand disconnected >=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 after the Significant Event;

(iv) the frequency (to 2 decimal places) immediately before the Significant SEvent;

(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 (Mega Watt Seconds) immediately before and immediately after the event so that estimated inertia lost in the event is identified, and a section showing how such the system inertia has been estimated ; and

(xii) any other data available that is of value to gain a clearer understanding of the Significant Event and its potential implications; and

(c) an outline of progress towards reporting events and associated data on the National Electricity Transmission System including:

(i) three phase fault;

(ii) three phase to earth fault;

(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.

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 in a pdf 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

(c) notify all **Electricity Distribution Licence** holders and **Network Operators** of every Significant Event and request information to fulfil its duties in OC3.4.1.

OC3.4.3 **The Company** shall prepare and publish the System Incidents Report annually in accordance with the following timescales:

(a) a data cut-off date of the end September for a reporting year;

(b) data is collated, reviewed and processed in October for a reporting year;

(c) System Incidents Report to be published and submitted to the **Grid Code Review Panel** in November for a given year and included as part of the System Operability Framework (SOF) report.