

**OPERATING CODE NO. 3
(OC3)**

SYSTEM INCIDENTS REPORT

CONTENTS

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

<u>Paragraph No/Title</u>	<u>Page Number</u>
OC3.1 INTRODUCTION.....	2
OC3.2 OBJECTIVE	2
OC3.3 SCOPE.....	2
OC3.4 SYSTEM INCIDENTS REPORT	2

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 infeed or exfeed (import or export including generation, **Demand** and interconnection) of $\geq 250\text{MW}$;
 - (ii) a frequency excursion outside the limits 49.90-50.10Hz (in accordance with the definition of **Target Frequency**);
 - (iii) a fault on the **National Electricity Transmission System** which:
 - A. could be linked to the known or reported tripping of 250MW or more of any **Power Station, DC Converter** or **User System** (see OC3.4.1(a)(i)); and/or
 - B. (as detailed in section CC6.1.4) is linked to a change in the transmission system voltage of more than
 - I. 400kV: $> \pm 5\%$ for $> 15\text{min}$; or
 - II. 275kV or 132 kV: $> \pm 10\%$ for $> 15\text{min}$;
 - (iv) any known demand disconnected $\geq 50\text{MW}$ 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
- (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** 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.