

Alerts Summary Code

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Alerts Summary Code

Alerts.1 Introduction

The Alerts Summary Code (Alerts Code) provides a unified reference of all Alerts and warnings contained in the Grid Code. The Alerts Code lists actions that OETC may take to warn or Alert Users in abnormal or Emergency Conditions and describes instructions to Users concerning immediate action or preparation for possible future action.

This Alerts Code is a summary of the requirements of the Grid Code. Individual sections of the Grid Code should be consulted on the detailed requirements of each warning and Alert. In the event of inconsistencies between this Alerts Code and other sections of the Grid Code the provisions in individual sections of the Grid Code shall prevail.

The relevant section of the Grid Code, under which any warning or Alert may be required, specifies the procedures, timing, possible actions and form of instruction for the instruction of that warning or Alert.

Alerts.2 Objectives

The objectives of the Alerts Code are as follows;

- to list the warnings and Alerts that may be issued by OETC to enable the safe Operation of the Total System in abnormal situations; and
- to identify the potential responses and actions that may need to be taken by Users on receipt of such warnings and Alerts.

Alerts.3 Scope

In addition to OETC, the Alerts Code applies to;

- Power Producers;
- Licensed Distributors;
- Licensed Suppliers;
- Directly Connected Consumers;
- International Interconnected Parties;
- Internally Interconnected Parties; and
- PWP (for information).

Alerts.4 Alert categories

This Alerts Code is concerned only with instructions associated with abnormal or Emergency Conditions. It does not refer to or include instructions given in the normal course of planning and operating the Total System or Despatch. These are detailed in the individual sections of the Grid Code.

**Table 1 General Alerts**

OETC shall issue an Alert whenever it becomes aware of any factors likely to give rise to a significant Disturbance or unusual operating conditions.			
Grid Code Reference OC5			
	Circumstances of issue	Recipients of Alert	Action to be taken by Users
1	Whenever OETC becomes aware of any factors likely to give rise to a significant Disturbance or unusual operating conditions.	All Users who may be adversely affected by the significant Disturbance or unusual operating conditions.	Acknowledge receipt of Alert by facsimile or other agreed electronic means.
2	The following conditions are those that as a minimum may give rise to an Alert;		Take any necessary preparatory steps consistent with overall System requirements to safeguard their Systems for the event.
	<ol style="list-style-type: none"> 1. Outage of any transmission components or generation units which cause either substantial reduction in system security or violate (n-1) criteria to a supply point.; 2. Outages or risks associated with 66kV or 33kV equipment, which may have substantial impact on total system load or system operations. In such circumstances the relevant distribution or generation companies should send alert to OETC and other users who are likely to be affected 3. Outages or risks associated with generation plant, which may have substantial impact on the generation capability of the plant or system operations. In such circumstances the relevant distribution or generation companies should send alert to OETC, PAEW Water Department (if applicable) and other users who are likely to be affected 4. Condition where the Operating Margin is below the agreed standard; 5. The Voltage or Frequency going outside operational limits; 6. Important events (e.g., National Day celebrations); 7. Major testing; 8. Accidents. 		Report any resulting events in accordance with the procedures set down in Code OC5.



3	An Alert shall take the following form;	
	<p>“This is an Alert timed at (xx:xx) hours; A Disturbance caused by is probable at (yy:yy) hours; The likely effect of the Disturbance is (.....); The Disturbance is likely to last (zz:zz) hrs; This Alert shall be considered to be automatically cancelled if the Alert is not renewed within 2 hours of the time of issue.”</p>	

**Table 2 Alert Warnings**

OETC will issue an Alert warning In the event of Incidents, such as a Total System Shutdown, a Partial System Shutdown or a System Separation.			
Grid Code Reference OC7			
	Circumstances of issue	Recipients of Alert	Action to be taken by Users
1	In the event of Incidents, such as a Total System Shutdown, a Partial System Shutdown or a System Separation.	All Users	Acknowledge receipt of Alert by facsimile or other agreed electronic means.
2	The form of the Alert Warning will be;		Each User shall follow OETC's instructions during an Incident and restoration process.
	<ul style="list-style-type: none"> ▪ "This is an Alert timed at (xx:xx) hours; ▪ There is a (Partial System Shutdown) at (aaaaa); ▪ A System Normalisation; Procedure is being implemented; ▪ Standby for further instructions". 		Users shall ensure that its personnel are familiar with, and adequately trained to be able to implement the System Normalisation Procedures prepared by OETC.

**Table 3 Demand Control Warnings**

All Warnings in this table will be issued only by OETC			
Grid Code Reference OC4			
	Circumstances of issue	Recipients of Warning	Action to be taken by Users
1	Demand Control Imminent Warning		
1.1	When OETC expects to issue an instruction requiring Emergency Manual Demand Shedding within the following 30 minutes.	Licensed Distributors, Directly Connected Consumers, and Users.	Acknowledge receipt of warning by facsimile or other agreed electronic means. Prepare to implement instruction requiring Emergency Manual Demand Shedding within the following 30 minutes.
1.2	A Demand Control Imminent Warning will automatically lapse if not reissued by OETC within 2 hours of the time of issue.		
1.3	The form of a Demand Control Imminent Warning will be;		
1.4	<ul style="list-style-type: none"> ▪ “This is Demand Control Imminent Warning timed at (xx:xx) hours; ▪ This warning applies to (<i>include name of Users and area/substations affected</i>); ▪ Prepare for Emergency Manual Demand Shedding of (XX) MW within the next 30 minutes; ▪ Do not shed Demand until instructed; ▪ Standby for further instructions”. 		

**Table 3 (continued)**

	Circumstances of issue	Recipients of Warning	Action to be taken by Users
2	Demand Control Red Warning		
2.1	When OETC expects to instruct Emergency Manual Demand Shedding or Planned Rota Demand Shedding on the day ahead.	Licensed Distributors, Directly Connected Consumers, Users, and	Acknowledge receipt of warning by facsimile or other agreed electronic means
2.2	A Demand Control Red Warning will be issued by 16:00 hours on the day ahead.	Power Producers with CDGensets that may be affected by such instructions.	Prepare to implement instruction requiring Emergency Manual Demand Shedding during the day ahead.
2.3	A Demand Control Red Warning will specify the period during which Demand Shedding may be required, the part of the Transmission System to which it may apply, the percentage of Demand reduction that may be required and any other matters.		
2.4	The form of a Demand Control Red Warning will be;		
2.5	<ul style="list-style-type: none"> ▪ “This is Demand Control Red Warning timed at (xx:xx) hrs; ▪ This warning applies to (<i>include name of Users and area/ substations affected</i>) to implement (<i>Emergency Manual Demand Shedding or Planned Rota Demand Shedding</i>) tomorrow; ▪ The amount of Demand to be shed will be (<i>specify amount and duration of demand to be shed</i>); ▪ Do not shed Demand until instructed “. 		

**Table 4 Special instructions**

OETC may issue special instructions in respect of a Schedule Day at any time during the period beginning immediately after the issue of the Generation Schedule and Desalination Schedule.			
Grid Code Reference SDC2			
	Circumstances of issue	Recipients of special instructions	Action to be taken by Users
1	OETC may issue a list of special instructions in respect of a Schedule Day at any time during the period beginning immediately after the issue of the Generation Schedule and Desalination Schedule. OETC will issue special instructions directly to the Users at each Control Centre in relation to required actions and Demand Control.	Licensed Distributors Users Directly Connected Consumers Internally Interconnected Parties.	Note and acknowledge receipt of special instructions by facsimile or other agreed electronic means. Prepare to implement as instructed.
2	Special instructions may include;		
	<ul style="list-style-type: none"> • Requirements for Demand reduction, de-energisation or restoration; • Instructions to effect a Demand transfer between Connection Points; • Instructions to switch in a Demand Intertrip Scheme. 		