

Emergency Instructions



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Emergency Instructions

- **Emergency Instruction**

To preserve the integrity of the NETS and any synchronously connected External System

- **Emergency Deenergisation Instruction**

Where condition of Transmission Plant may cause damage or injury to people or the NETS

Emergency Instruction Grid Code Definition

■ Emergency Instruction

An instruction issued by **NGET** in emergency circumstances, pursuant to BC2.9, to the **Control Point** of a **User**. In the case of such instructions applicable to a **BM Unit**, it may require an action or response which is outside the **Dynamic Parameters, QPN** or **Other Relevant Data**, and may include an instruction to trip a **Genset**.

Emergency Instructions – BC2.9.1

- As determined by NGET in its reasonable opinion
- **To preserve the integrity of the NETS and any synchronously connected External System**
- Response to events on the NETS or other User's System
- To maintain adequate System and Localised Negative Reserve Active Power Margin
- To maintain adequate frequency sensitive Gensets
- The need to implement Demand Control
- The need to implement Black Start or resynchronise a De-synchronised island
- Request provision of Maximum Generation Service
- Need to issue an Emergency Deenergisation Instruction
- May require a response outside of submitted data

Planning Timescales

- Need to use Emergency Instructions can be notified at:
- 2-5 Years ahead
 - ◆ Week 34 (OC2.4.1.3.2(e))
- Year ahead
 - ◆ Week 49 (OC2.4.1.3.3(h))
- Current year
 - ◆ When necessary (OC2.4.1.3.4(d))
- Programming Phase (0-8 weeks ahead)
 - ◆ By 16:00 hours each Thursday (OC2.4.1.3.5(a))
- Day Ahead
 - ◆ By 16:00 each Monday, Tuesday, Wednesday and Thursday

Emergency Instructions - Issue

- Issued to:
 - ◆ The Control Point of a BMU (BC2.6.2)
 - ◆ The Control Centre of other Network Operators (BC2.6.3)
 - ◆ The Control Centre of other System Operators (BC2.6.4)
- Normally given by telephone
- Prefixed with “This is an Emergency Instruction” Except:
 - ◆ Black Start, (All instructions assumed to be Emergency)
 - ◆ Maximum Generation (issued electronically) and
 - ◆ Emergency Deenergisation Instructions

Examples of Use

- During Risk of System Disturbance (OC7.4.8.8)
- In a Total Shutdown or Partial Shutdown and during the subsequent recovery (OC9.4.4)
- During a Black Start situation, instructions in relation to Black Start Stations and to Network Operators will be deemed to be Emergency Instructions (OC9.4.7.4)

Example Instructions (BC2.9.3)

- Generators
 - ◆ Trip one or more Gensets
 - ◆ Trip mills
 - ◆ Part load a generating unit/ CCGT/ Power Park Module
 - ◆ Instruct operation of Generating Units in a Cascade Hydro Scheme
- Network Operators
 - ◆ Demand Reduction and disconnection (ie OC6)
 - ◆ Load transfer between GSPs
 - ◆ Split a network
 - ◆ Disconnect Plant or Apparatus

Emergency Instructions - Implementation

- User must respond without delay and using all reasonable endeavours
- May only be rejected on safety grounds (plant or personnel)

Emergency Deenergisation Instructions

Grid Code Definition

- **Emergency Deenergisation Instruction**

an **Emergency Instruction** issued by **NGET** to **De-Synchronise a Generating Unit, Power Park Module** or **DC Converter** in circumstances specified in the **CUSC**.

Emergency Deenergisation Instruction

CUSC Definition

- Issued to:
 - ◆ A User to deenergise equipment
 - ◆ A user to MEL to zero
 - ◆ Request a DNO to deenergise User's equipment
- Where
 - ◆ **Condition of Transmission Plant may cause damage or injury to people or the NETS**
 - ◆ If the user's equipment is not deenergised (or MEL'd to zero) the Transmission Plant is likely to trip
 - ◆ If the Transmission Plant tripped then the user's equipment would be deenergised

Emergency Instructions - Compensation

- To a BM participant
 - ◆ Treated as Bid–Offer Acceptance
- Maximum Generation Service
 - ◆ Payment detailed under CUSC and the Maximum Generation Service Agreement
- Emergency Deenergisation Instruction
 - ◆ Payment under CUSC
- Black Start
 - ◆ Section G of the BSC