

Generator emergency scenario – to be provided within 24 hours of emergency operation

Permit Number: EPR/BB3599CW
Facility: Newport Data Centre

Operator: Vantage Data Center
Form Number: EmergencyScenario/ 31/10/2021

Reporting of generator emergency scenario operation

Parameter	
Date of emergency operation	31/10/2021
Time of emergency operation	18:07pm
Number of generators operating immediately after the emergency operation	14
Number of generators operating 2 hours after emergency operation	10
Anticipated duration of the mains supply emergency operation	4 Hours & 56 Mins

Operator's comments:

At 18:07pm on 31/10/2021 The site experienced a Power Dip on National Grid. This resulted in 3 of our areas activating the emergency operation of generators. Please see comments on each area below:

Area 1: GF01 – At 18.07pm a power dip occurred placing our systems into emergency operation. The systems worked as it should however, when the power stabilised we were unable to return to utility supply due to component failure with the '3 Phase Failure Relay' in Plantrooms A & B. We therefore needed to continue running the load on generators until this issue was resolved. The business invoked our business continuity plan, calling the Engineering Manager to Site and diagnosing the issue. Once all engineers were available they followed our EOP for changing a '3 Phase Relay' in both plantrooms by using the critical spares held on site. Upon successfully changing this the utility supply was re-instated. GF01 has a total of 5 generators. The generator run times due to this can be seen below:

GF01 Run Times:

Set 1 = 4 Hours + 55 mins
Set 2 = 4 Hours + 56 Mins
Set 3 = 4 Hours + 54 mins
Set 4 = 4 Hours + 54 mins
Set 5 = 4 Hours + 54 mins

Total Hours Run for GF01 = 24 hours & 33 Minutes

Area 2: GF02 – At 18.07pm the National Grid experienced a power dip. Back-up systems worked as they should and within 19 mins all generators were no longer running and were back fully on utility supply. GF02 has a total of 4 Generators. Generator run times due to this can be seen below:

GF02 Run Times:

Set 1 = 15 Mins
Set 2 = 15 Mins
Set 3 = 8 Mins
Set 4= 19 Mins

Total Hours Run for GF02 = 0 Hours & 57 Minutes

Area 3: GF14 – At 18.07pm a power dip occurred placing our systems into emergency operation. The systems worked as it should however, when the power stabilised we were unable to return to mains supply due to component failure with the '3 Phase Failure Relay' in Plantroom B. We therefore needed to continue running the load on generators until this issue was resolved. The business invoked our business continuity plan, calling the Engineering Manager to Site and diagnosing the issue. Once all engineers were available they followed EOP for changing a '3 Phase Relay' in Plantroom B by using critical spares held on site. Upon successfully changing this, mains supply was re-instated. GF14 has a total of 5 generators. The generator run times due to this can be seen below:

GF14 Run Times:

Set 1 = 3 Hours & 51 Mins
Set 2 = 3 Hours & 48 Mins
Set 3 = 3 Hours & 48 Mins
Set 4 = 3 Hours & 51 Mins
Set 5 = 3 Hours & 42 Mins

Total Hours Run for GF14 = 19 Hours 0 Minutes

Toal Run Time for all Generators from All Areas = 44 Hours & 30 Mins

No other areas were affected except those listed above, GF01, GF02 & GF14. The times each environment came back online were staggered times based on run hours above. All affected generators were back online on the same day 31/10/2021 by 23:03pm, 4 Hours & 56 Mins after the Power Dip.

Signed
(Authorised to sign as representative of Operator)

Date.....1/11/21.....