

Client: Talk Talk Technology

Location: Buckinghamshire

Sector: Data Centre

Project value: £3,500,000

Project: Breckland Critical Infrastructure Project



## Brief

JCA were asked to carry out extensive capital plant replacement and upgrade work on a 20+ year data centre facility. The works were to be carried out in a live environment with no loss or impact to the client's services.

## Action

A complete refurbishment was carried out two 500kVA static UPS systems and one 600kVA static UPS system, including full battery replacement. A new fourth 400kVA scalable static UPS system was installed.

We carried out the installation of new 3200A LV switchboards and the re-configuration of three 2.15 MVA standby generators. The power generation, mechanical and electrical infrastructure, were redesigned to accommodate a fourth 2MVA standby generator and the addition of a further fuel tank and pipework modification work increased the standby resilience.

The existing loads were reconfigured to maximise site resilience and load balancing across the four utility supply 11kV transformers.

In addition, the existing site wide fire suppression system was completely refurbished and enhanced to provide protection to the higher hazard class A and redesigned for higher levels of concentration.

## The outcome

This challenging project was carried out with meticulous planning and attention to detail. It was completed on time and met the client's commercial expectations.

The success of this project has led to ongoing critical services work for this client on sites all over the UK.