



# Critical Power Incident

## Case Study



**FACILITIES MANAGEMENT**

### Background

In the early hours of a Sunday Morning, the Facilities Management department at Sudlows received an urgent call from the data centre team at one of the UK's leading major retailers.

A major incident had occurred at their primary data centre facility, resulting in a total loss of all backup power to a number of their systems. To compound this, all major corridors and local routes in the surrounding area of the city centre facility were subject to rolling road closures in order to accommodate a cycling event with an estimated 20,000 participants and spectators attending.

### The Brief

What follows is a timeline record of the event and details of the rapid response that Sudlows critical power team put into action for the emergency replacement of the failed UPS system. All undertaken at a facility that Sudlows had no prior visibility of and little hope of immediate access to.

From the initial emergency call, all the way through to a complete system restoration, this highly critical project was all successfully achieved in a very impressive 57 hours. The new critical power system installed and commissioned by Sudlows now comprises of 4 x 100kVA UPS in a 300kVA (N+1) configuration.

## Timeline

### Sunday

- 09:30 - First call received by Sudlows
- 09.45 - Road closures established; alternate route identified with local council collaboration.
- 10:15 - Sudlows site attendance.
- 10:30 - Engineering solutions co-ordinated.
- 11:00 - Replacement equipment sourced (on a Sunday and during the Olympics when spares are scarce).
- 12:30 - First materials delivered to site. Data Centre Manager, Group IT Services
- 13:00 - Preliminary orders placed.
- 14:00 - Removal of the existing UPS system commenced.

### Monday

- 10:00 - Sudlows engineers on site to assist in removal of equipment.
- 11:00 - Sudlows engineers source all final materials.
- 12:00 - Confirmation equipment is being dispatched.
- 16:00 - New UPS system on site.
- 18:00 - UPS systems positioned.
- 20:00 - UPS and battery build 50% complete.
- 22:00 - Comms sent to data centre team to confirm works progress.

### Tuesday

- 07:30 - Sudlows engineers resume installation works.
- 08:30 - Second consignment of materials delivered.
- 10:00 - Remaining battery systems built.
- 12:00 - Initial electrical testing started.
- 16:00 - UPS pre-commissioning checks undertaken.
- 17:30 - UPS final commissioning.
- 17:45 - Sudlows electrical testing resumed & completed.
- 18:15 - Client training and inspections.
- 18:30 - UPS system put into service and with no interruption to service.
- 19:45 - Retailers IS team successfully transfers the business system back online.

## Testimonials

Head of Servers, Storage and Desktops, Group IT Services commented;

“Firstly, a simple MASSIVE, thanks for all your help. An excellent example of a great team and a great strategic partner for our Group. I agree, it's a record and a testimony to your team's professionalism! Please pass on our sincere thanks for their efforts, which were in the 'Over and above the call of duty' territory.”

Data Centre Manager, Group IT Services said;

“Wholeheartedly agree, a true measure of what can be achieved with the level of commitment and attitude demonstrated by all parties in turning around what was a grave situation. Thank you all.”

“We made the right calls and decisions with professional technical advice from highly respected supply chain partners, from the crucial enabling works before the raw power restoration, to selecting a buy policy instead of a panic influenced hired-set, with all of its locked in costs and unknown quantities. Thanks again to everyone.”

Technical Services Manager, Workplace Services added;

“I wholly support my IT colleagues comments, a phenomenal achievement by any standards and raising the bar for our other suppliers, thanks again all.”

Andy Hirst, Managing Director of Critical Infrastructures at Sudlows concludes;

“This is a testament to what can be achieved with a “can do” approach from everyone involved. We operate in a 24/7/365 uptime world. As such date, time and logistics are no barrier to Sudlows' operations.”

The success of this project highlights the need for all organisations to regularly test their own critical power arrangements and demonstrates the true benefits of taking out a facilities management contact with embedded contingency power arrangements to BS25999 with a data centre specialist such as Sudlows.