

CONFIDENTIAL CLIENT




DUBLIN, IRELAND


6 MONTHS | €250,000 EURO

DATA CENTER COMMISSIONING STAFF AUGMENTATION

 Commissioning & Qualification


 Building Commissioning

 Asset Management & Reliability


 Quality, Compliance, & Regulatory

 Human Performance

 Process & Manufacturing Technology

 Program & Project Management

 Automation & Information Technology

 The Chemistry of Full-Scale Operations™

 Data Centers

WHEN YOU NEED TO MEET A HIGHER STANDARD™

PROJECT OVERVIEW

CAI was approached by an existing client to support ongoing commissioning activities underway at two facilities in Dublin. There were many quality issues identified, and resolving them was taking additional time. These delays had the potential to delay the turnover date to the client and impact the business. It was necessary to compress the testing approach with concurrent testing happening in multiple spaces to avoid these delays. The incumbent CxA did not have enough capacity to support all simultaneous testing tracks. CAI support was therefore needed to achieve turnover dates while also maintaining the level of expected quality of the facility.

CAI applied team members to the project in a staff augmentation method, whereby our team members were autonomous but operating within the remit of the incumbent CxA. Our team immediately added value by taking on the electrical and mechanical commissioning activities in discrete facility areas. These activities included completing all Functional Performance and Integrated systems testing once basic facility and test scripts familiarization activities were complete.

OBJECTIVE

The client needed our team to join the project and be productive from the start to achieve the desired turnover date while maintaining or exceeding the required quality level.

EQUIPMENT

Data Center 1

- Over 70 electrical panels including; UPSs, substations, medium voltage switchgear, automatic and static transfer switches, PDUs, and generators.
- Over 60 AHUs spread across COLO, Electric, Corridor, and Ancillary spaces.

Data Center 2

- Over 40 electrical panels including; UPSs, substations, medium voltage switchgear, automatic and static transfer switches, PDUs, and generators.
- Over 60 AHUs spread across COLO, Electric, Corridor, and Ancillary spaces.

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SERVICES PROVIDED

- Start-up meetings with Client, Operations, Main Contractor, and Vendors
- Morning Cx Meetings with Client, Operations, Main Contractor, and Vendors
- Safety Method Statements development, review, and submission to Operations for testing on live systems
- Completion of Functional Performance L4 Tests (FPT) for a subset of all electrical and mechanical equipment across two data centers
- Modification of mechanical test scripts to support more efficient execution
- Coordination of electrical and mechanical testing tracks to avoid clashes and make the commissioning sequence more effective
- Generation, tracking, and closeout of all L4 issues

VALUE DELIVERED

With the addition of the CAI team, the client achieved the required turnover dates. The CAI team leveraged experience from similar client sites and used this to devise more efficient and effective commissioning approaches than had been adopted on the project to that point. The CAI Mechanical team were instrumental in achieving a successful outcome as CAI leveraged testing approaches increasing efficiency by over 50%, meaning that concurrent testing was possible. Electrical team approaches also helped to reduce test execution time by over 30%. Cx activities were coordinated with the installing contractors to minimize duplication of efforts. All testing issues were documented and tracked to satisfactory resolution.