



# CONFIDENTIAL CLIENT




WASHINGTON | USA  
9 MONTHS | \$400MM PROJECT

## DATA CENTER PROJECT


 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

To increase reliability, an upgrade to the existing electrical infrastructure of each of four buildings in the facility all commissioning activities needed to be undertaken in an operational facility. All electrical transitions were performed with ZERO impact to the operating environment.

#### OBJECTIVE

A reserve bus was required to upgrade reliability; therefore, installation and commissioning was incrementally carried out in a phased construction approach without impact to production loads.

#### SERVICES PROVIDED

The basic scope of work involved the addition of a reserve bus, including the following:

- One (1) Medium Voltage Switchgear, one (1) Substation Transformer, and one (1) Low Voltage Switchgear
- One (1) 2.5MW generator and one (1) 4000A Automatic Transfer Switch
- One (1) 4000A Switchgear and Two (2) 2000-amp bus ducts; each feeding 2 Cell's PDURs and HVAC Reserve source
- Two (2) additional Reserve Power Distribution Units (RPDUs) while re-feeding the existing eight (8) PDUs
- Four (4) 400A HVAC Panelboards with twenty (20) HVAC ATSS; one panel in each cell and one ATS per CAHU
- The addition of all associated electrical distribution

#### VALUE DELIVERED

This upgrade was completed on two geographically separate sites. CAI staff were engaged in coordination activities from the beginning and provided valuable insight to protect the critical load. Not one minute of production time was lost during evolution.