

DataBank, Summit Park Data Center

Tier III, North Fayette, PA



THE PROJECT

CJL has performed design for several large projects and Summit Data Center; including design of a 12,000 sf central plant, a 4N+3 distributed redundant UPS Distribution System, emergency generation paralleling distribution system and tenant fit-out.

CJL DESIGN SOLUTIONS

- Provide an updated arc flash / coordination study for the data center to account for the distribution upgrades being made as a part of the project. CJL to provide new labels on all electrical equipment upon completion of the project.
- Design of metering systems for distribution equipment and integration into the BMS System.
- Design of 4N+3 distributed redundant UPS Distribution System including 4160V feeders and transformers, UPS Systems and associated output distribution to all tenant spaces.
- 12,000 sf, 2,800 ton central plant including 2N power sources, N+1 redundancy and concurrent maintainability for all mechanical equipment, 60,000 gallon thermal energy storage tank to provide ride turnover capacity and BMS system for the entire plant.
- Power and chilled water distribution to tenant spaces as well as fit-out.
- Additions and modifications to 4160V switchgear and generator paralleling switchgear (GPS) including design of additional 4160V, 1.5 MW, diesel generators.
- Developed sequence of operation for operation of utility and GPS.

PROJECT REFERENCES:

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