NDA Data Center

Newark, CA

Project Type

Data Center

Size

100,000

Completion Date

2015

Owner

Fortune 100 Company (non-disclosure agreement)

References

Upon request

This data center was originally built in 2000 and has a range of cooling technologies including, air-cooled CRACs, chilled water CRAHs, and Liebert XDV/XDPs (over-rack refrigerant fan coils).

The services provided by Taylor Engineering for this project started in 2008 and continue today. These roles include:

- 2008 Feasibility study and schematic design of several HVAC alternatives to increase data center cooling capacity from 5 MW to 10 MW. This analysis included CFD models and alternatives included a new chilled water system with waterside economizer, variable speed custom computer room air handlers and cold aisle containment.
- 2013 Master Plan which identified several lifecycle cost effective retrofit projects with energy savings of over $10 million annually.
- Engineer of record for several of the projects identified in the Master Plan including:
  - Reconfiguration of an incorrectly configured waterside economizer
  - New central plant control sequences
  - Replacement of 600 tons of DX packaged units serving electrical rooms with custom chilled water with airside economizers. We also served as commissioning agent for this project which was conducted while the data center was live.