

# Data Center Solutions

## **Data Center Diagnostic**

*Evaluate the data center from microchip to utility service.*

By minimizing risk and increasing overall energy efficiency, we work to improve your bottom line while maintaining your peace of mind. Our diagnostic report includes two Computational Fluid Dynamic (CFD) models, airflow and critical power evaluations, rack and circuit breaker load analysis, recommendations for improving power and HVAC efficiency, and a road map for expansion.

## **Commissioning**

*Ensure that all materials, systems and equipment are installed and operating within approved tolerances.*

We inspect all equipment with step by step pre-functional and functional checklists to ensure that all equipment specified is provided and that it was installed according to design intent and specifications.

## **Optimization**

*Inspect facility at regular intervals to ensure proper functioning for the life of the facility.*

Data centers are very dynamic facilities that require constant monitoring. This would include electrical power allocation, cooling optimization, Computational Fluid Dynamic (CFD) modeling, to ensure that all design parameters are met throughout the life of the facility.

## **Data Center Reliability Analysis**

*Inspect the electrical, mechanical, and architectural infrastructure for weakness that might compromise reliability.*

A single point of failure threatens a data center the same way that a single weak point in a dam threatens a catastrophe. We search out those points as well as other systemic issues such as location, capacity, and airflow to identify and solve them. All of these issues come together in a report that provides practical recommendations with real world solutions customized to your needs. This report helps to prioritize upgrades and creates a plan to maintain an efficient and reliable data center far into the future.

## DESIGNS FOR THE LIFE OF THE DATA CENTER