Facility Design & Operational Peer Review

Validate the Design of Your Mission Critical Data Center

- **Work with Industry Professionals** who have decades of real-world experience in designing, engineering, building and operating data centers throughout the U.S.

- **Re-Validate your Design and Engineering Specifications** in light of ever-changing demands for increased performance at lower cost

- **Discover Opportunities for Cost and Efficiency Improvements** including uncovering single points of failure and deviations from best practices

- **Understand the Financial Condition of Your Data Center** using current financials as measured against original assumptions to determine operational efficiencies to improve operational metrics

How to improve your data center's performance

Data center design, engineering and construction is different from virtually all other types of construction projects. Housing IT equipment, most of which is typically re-engineered and refreshed every three years, the original design assumptions and engineering specifications of the supporting infrastructure of a data center can quickly become outdated and inefficient.

It can be extremely helpful to obtain an objective evaluation from experienced data center professionals to confirm capacities, capabilities, loads, efficiencies, vulnerabilities and life/safety, as measured against current demand requirements and future projections.

Whatever stage of the life cycle your data center is at, MDI can provide you with crucial insight to extend and improve the useful life expectancy of your mission critical facility.

The MDI Perspective – What We Deliver

Step-1. If you have a design, MDI will review and comment in terms of the following engineering disciplines:

- Civil
- Floorplan
- Electrical
- Plumbing
- Physical security
- Disaster avoidance
- Tier Level determination
- Architectural
- Structural
- Mechanical
- Fire detection/suppression
- Telecom entrance
- Operational efficiencies

Step-2. Wherever you are in your Data Center Life Cycle, MDI will assist you in examining where your company is in terms of the following operational financials:
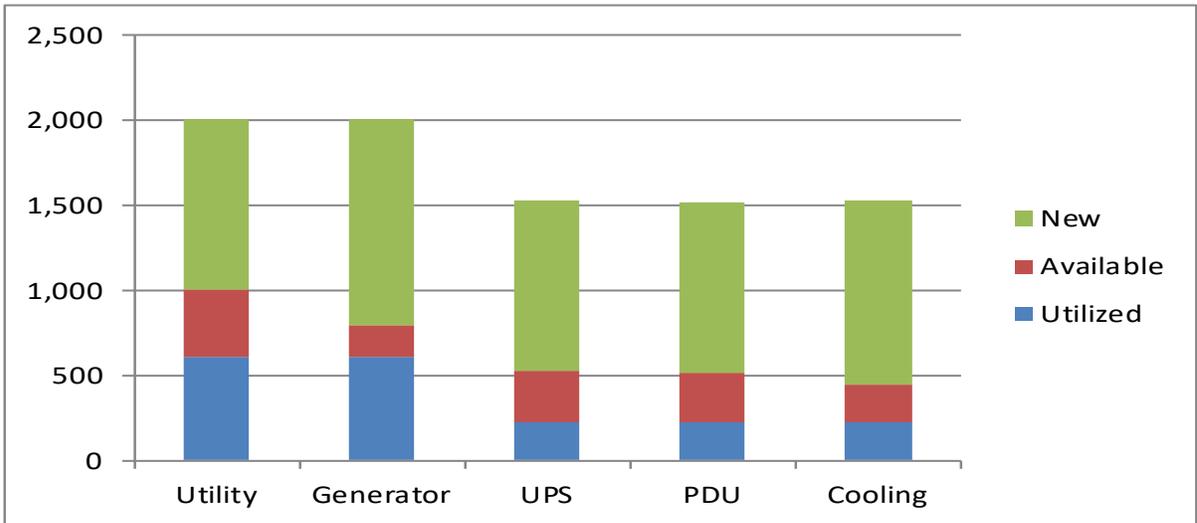
- Design assumptions vs. current realities
- Current/future CAPX
- Equipment refreshes
- Engineering specifications
- Current/future OPEX
- PUE/efficiencies
- Review or creation of new business pro-forma

Peer Review Findings

At the conclusion of your review, MDI will present you with a detailed, easily digestible, point-by-point summary of findings, including:

- Single points of failure uncovered
- Items of concern/best practices improvements
- Rationale for questioning the original design/infrastructure item
- Potential capital cost savings
- Potential operational cost savings

Sample Review

Utilized Capacity vs. Availiability Capacity vs. Ultimate Design Capacities

DR-1-36 `OPEN` `HIGH`

1.6 P - There are other "systems" and equipment shown on M700 that are not listed here, for example, hydrogen monitoring. Please coordinate specification with drawing sequences for points required.

DR-1-37 `OPEN` `HIGH`

1.6 P 4 - Confirm that a "single point" is what is required? Per M501 there are many others points and information that may not communicate through the fuel management controller.

Exerpt from Design Peer Review

In Summary

MDI Access is delivering on its promise to change the mission critical data center industry. We deliver forward-thinking advice and operation-enhancing solutions. MDI Access acts as your single point of contact for managing the cost, effectiveness and risk related to your information systems. No one else brings the holistic level of experience that MDI Access does.

Your Business Deserves the Best Data Center Solution. Call MDI to Get Started.   **sharris@mdiaccess.com**

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