Facility Vulnerability & Capacity Assessment

Evaluate your Data Center's Capabilities

- **Work with Industry Professionals** to evaluate the reliability and redundancy of your data center

- **Understand your Data Center's Shortcomings** including vulnerabilities, single points of failure and deviations from best practices

- **Determine Future State Objectives** based on industry best practices and your current and future state requirements

- **Prioritize Investments** in your data center using a budget vs. benefit analysis

Achieve a more reliable, redundant, and efficient data center

Today's business environment is changing rapidly. Owning and operating a data center has become increasingly challenging, costly and time consuming. In a recent industry survey, nearly 70 percent of respondents reported a facility or infrastructure capacity constraint. Driving this trend is the perfect storm of factors including increased availability requirements, the age of data center facilities and regulatory issues, among others.

Many organizations are making efforts to address these issues. However, the bottom line is that the lead time for facility change is not effectively aligned with the speed of emerging technology implementation and the ever-growing, ever-changing demands being placed on these facilities by the IT they support.

The speed and frequency of required changes and upgrades to your data center's infrastructure may have introduced multiple unintended consequences including, on the low end of the scale, best practice violations and on the high end, single points of failure.

MDI's Data Center Facility Vulnerability & Capacity Assessment provides you with an independent, objective view of your facilities risks, vulnerabilities, and areas of excellence. Obtaining this data is a necessary step in developing a holistic data center strategy that will meet your organizations budget and timeline requirements, without increasing your risk tolerance profile.

The MDI Perspective – What We Deliver

MDI will assist you in examining where your data center is in terms of the following requirements:
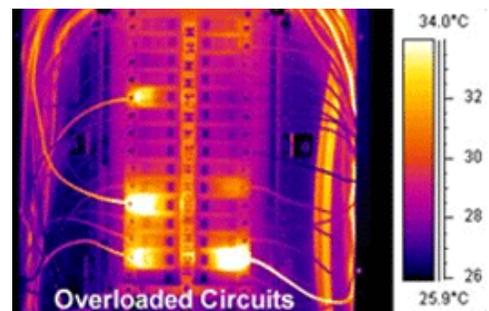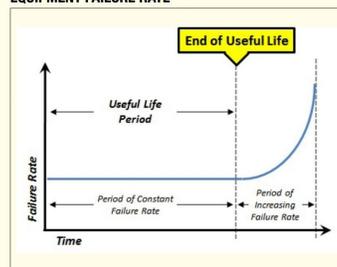
- Engineering Disciplines
- Physical Security
- Disaster Avoidance
- Efficiency Opportunities
- Single Points of Failure
- Load calculations
- Findings/Recommendations
- Changing objectives

EQUIPMENT SERVICE LIFE SPAN		
Equipment Type		**Years**
Packaged & Split HVAC Units		15
Chillers	Water-Cooled	20–25
	Air-Cooled/DX	15
Cooling Towers		20
Condensers (Air-Cooled)		15
Boilers	Electric	15
	Others	25–35
Pumps		15–20
Controls		10–15
Coils (CHW and DX)		20

The above service life estimate ranges are based on data in the ASHRAE Applications Handbook (A37-2015, Table 4) relevant to commercial and industrial applications. Actual life can vary widely. To learn more, go to the ASHRAE database.

Standard Assessment – Useful Life Expectancy of Major Equipment

Advanced Assessment – Infrared Thermography

Sample Review

ASSESSMENT FINDINGS SPREADSHEET

	Low Risk	Medium Risk	High Risk
Site Environment		✦	
Building Structure	✦		
DC Floorspace			✦
Electrical			✦
Mechanical			✦
Fire Protection			✦
Telecom		✦	
Disaster Avoidance	✦		
Physical Security		✦	
Policies & Procedures		✦	
Efficiencies/PUE			✦

Assessment Summary

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. Call MDI to Get Started. sharris@mdiaccess.com

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