

Critical Facility Assessments

Evaluate efficiency & availability with a comprehensive evaluation developed and customized using industry-leading standards and customized to the specific needs of your organization.

Powerful Tools

Keeping up with changes in technology and industry standards is a challenge. The WES Critical Facility Assessment provides the intelligence you need to deal with issues that arise in a complex and dynamic facility. It provides direct support for implementation of corrective actions and a resource to address both existing issues and future planning needs to optimize energy usage in the data center while maintaining needed availability.

Understanding how your facilities compare against themselves as well as the global marketplace provides the knowledge to direct projects and resources to meet business goals.

- *Baseline Conditions*
- *Investigate Problems*
- *Compare Facilities*
- *Track Improvements*

Providing Actionable Intelligence

Based on over 35 years experience at more than 6000 data centers, the WES Critical Facility Assessment provides real data and practical solutions.

Physical Facility Inspection

- Visual Review & Photo Documentation of Subject Area
- General Room Design & Layout Assessment
- General Activity & Practices Review

Temperature, Relative Humidity & Air Distribution

- Temperature & Relative Humidity Room Measurements
- Temperature & Relative Humidity Monitoring
- Conditioned Air Distribution Measurements & Evaluation
- Cabinet Design & Hardware Layout Evaluation
- Environmental Support Equipment Physical Inspection
- Air Conditioner Capacity Evaluation
- Energy Utilization Assessment
- Support Equipment Set-Point & Calibration Review
- Subject Area Perimeter Integrity Inspection
- Exposure Point Identification & Evaluation
- Building Monitoring System (BMS) Data Review

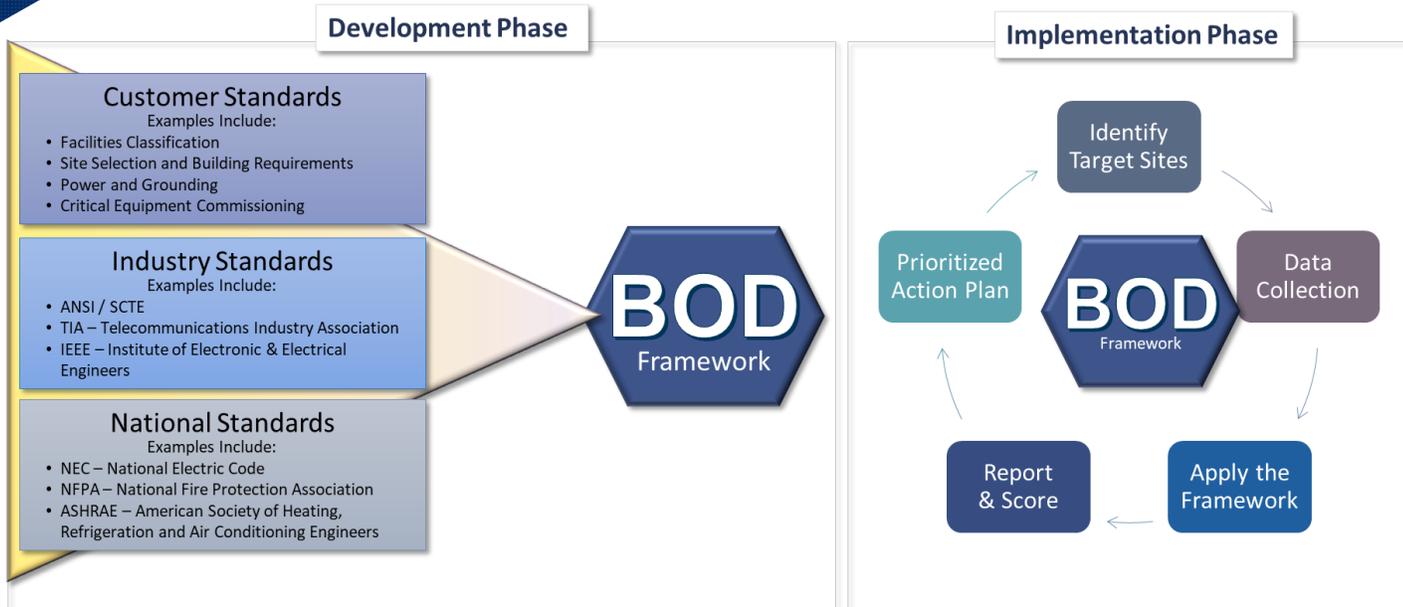
Contaminant Concerns

- Airborne Particulate Concentration Room Measurements
- Exposure Point Airborne Particulate Concentrations
- Limited Field Samples for Analysis
- Hardware and Room Surface Contamination Inspection
- Subfloor Air Plenum Inspection
- Air Filter Evaluation
- Cleaning Practices and Operator Procedures Evaluation

Energy Distribution & Usage

- Electrical Cooling Load Calculations
- Equipment Power Consumption Evaluation
- Equipment & Cabinet Grounding Practice Review
- Heat Density Calculations
- In-Room Loading & Balance Review
- Building Monitoring System (BMS) Data Review

Contact WES to schedule a Critical Facility Energy Assessment today.



Understand your critical facility

“Best Practices” or “Industry Standards” are often used as goals for the development or evaluation of critical infrastructure facilities. Most organizations do not have the luxury of standardized facilities or standardized distribution topologies. Understanding how your facilities compare against themselves as well as the global marketplace provides the knowledge to direct projects and resources to meet business goals. Availability goals are very often not exclusive of energy efficiency or other ECO goals and efforts between the two must be coordinated.

Our Critical Facility Assessment services incorporate key information to understand existing facility levels and capabilities as well as recommendations for upgrades. This is critical to understanding the impact of potential upgrades as business continuity demands pressure existing infrastructure capabilities.

The final deliverable is arranged to provide multiple levels of data summary to allow executive level briefing, management oversight, and solution provider detail. Data is included regarding geographical influences, site specific concerns, and targeted upgrade responses.

Site Score Summary - Group 3
Major Categories & Site Totals (Critical Deficient Noted)

WES

Major Categories	Group 3 / Site H0013 < Num of Deficient Critical Items	Group 3 / Site H0014 < Num of Deficient Critical Items	Group 3 / Site H0019 < Num of Deficient Critical Items	Group 3 / Site NE0009 < Num of Deficient Critical Items	Group 3 / Site NE0010 < Num of Deficient Critical Items	Group 3 / Site NE0015 < Num of Deficient Critical Items	Group 3 / Site NE0022 < Num of Deficient Critical Items	Group 3 / Site NE0023 < Num of Deficient Critical Items	Group 3 / Site TX0003 < Num of Deficient Critical Items	Group 3 / Site TX0004 < Num of Deficient Critical Items	Group 3 / Site TX0005 < Num of Deficient Critical Items	Group 3 / Site TX0006 < Num of Deficient Critical Items	Group 3 / Site TX0007 < Num of Deficient Critical Items
Electrical Systems	87% 1	89% 0	96% 0	77% 1	88% 0	83% 1	93% 0	90% 2	94% 0	100% 0	98% 0	98% 0	100% 0
Cooling Systems	87% 2	88% 4	96% 2	79% 5	95% 1	75% 5	82% 6	90% 3	96% 1	90% 2	98% 2	92% 4	91% 2
Energy Efficiency	74% 1	90% 1	99% 0	83% 1	76% 1	88% 0	92% 0	88% 1	100% 0	98% 1	100% 0	79% 1	95% 1
Safety & Security	76% 5	80% 7	82% 2	82% 6	83% 4	81% 4	78% 3	73% 4	87% 3	66% 5	93% 0	90% 1	72% 3
Monitoring & Control	97% 0	74% 0	94% 0	79% 0	85% 0	67% 0	85% 0	91% 0	94% 0	94% 0	96% 0	91% 0	88% 0
TOTAL	83%	74%	91%	68%	88%	71%	82%	83%	93%	83%	96%	91%	85%

