

Data Center

Site Testing & Commissioning

At a Glance:

- Verify that your newly-built or retrofitted data center accurately aligns with original design documents and engineering specifications
- Perform an integrated building systems infrastructure test, verifying interdependencies of the standby generator, UPS, HVAC and more
- Rely on data center professionals for validation prior to your IT migration

Feel Confident That Your Data Center Will Operate Exactly As Designed

Whether you are building a new data center or retrofitting an older one, Forsythe's Site Testing & Commissioning service is a critical step in your building process. Since a data center is a significant financial investment for your company, performing site testing & commissioning prior to your IT migration will give you the assurance you need to feel confident that your data center's building systems infrastructure will perform to its design specifications. Forsythe delivers decades of real-world data center experience with professionals who are well-versed in the entire spectrum of building support equipment, including the nuances of integrating older and newer systems.

Forsythe Delivers

Forsythe will write your commissioning script based upon the data center's original design and engineering specifications. This way, you can be confident that before you migrate your critical IT into your new or re-architected data center, your computing environment will be ready to accommodate your technology.

Added Benefit of Working with Forsythe

In addition to validating your infrastructure and operating systems, Forsythe will facilitate the site testing & commissioning process by requiring manufacturers to attend testing. This additional step gives manufacturers the opportunity to witness their equipment as it is being tested so they are able to correct problems if they occur for a smoother, overall engagement.

Everything You Need for a Successful Engagement

- Detailed testing & commissioning of major building infrastructure systems and components will include:
 - Generators & ATS (load bank tested)
 - UPS & batteries (load bank tested)
 - PDUs (load bank tested)
 - Process cooling (load bank tested)
 - Emergency Power Off
 - Fire detection/suppression
 - Integrated critical support systems tests
 - Multi-system testing scenarios
- Tests performed and system checklist
- Pass/fail status
- Deficiencies & corrective actions, as required

Site Testing & Commissioning for a Large Insurance Company

Sample Report					
5.0	Electrical Distribution System	Pass	Fail	n/a	Comments
5.1	All critical support systems and/or equipment are 100% installed with start-up services completed and start-up reports submitted as required	●			All start-up reports available at start of commissioning. All service technicians on site @ 7:00 AM for commissioning start
5.2	All customer metering equipment confirmed for proper calibration and operation	●			Current transformer accuracy at Square D and generator monitoring locations confirmed
5.3	TVSS system remote alarm annunciation function confirmed for proper operation			●	Remediation of Schweitzer relay reporting completed. Remote start stop buttons now functional UPS load banks @ 100% - 4 hrs. Fully commissioned and ready to accept IT loads
5.4	Emergency generator system ready for site testing – all fluid levels checked and proper start battery voltage confirmed	●			
5.5	The UPS systems have been successfully load bank tested and each system's proper operation confirmed under 90% loading conditions	●			
5.6	Each UPS system's battery plant is equalized and float charged per manufacturer's requirements to ensure batteries are 100% charged prior to testing	●			Alber battery monitoring system ribbon cable replaced. Unit is 100% functional and in operation
5.7	Data center electrical distribution system is load bank tested as an "integrated system" to confirm proper operation of all the system components under true emergency operating conditions – entire electrical system successfully commissioned		●		Electrical systems relative to the data center are considered to be fully commissioned under this testing; Primary distribution systems as integrated with the emergency generator systems as integrated with the emergency generator system was not successful – Scheduled re-test 16 Aug. '08

Get the Forsythe Advantage.

For more than 35 years, Forsythe has delivered forward-thinking advice, technology, and operation-enhancing solutions. As an infrastructure integrator, Forsythe can help you address every aspect of your infrastructure, including how new solutions may affect the bigger picture. Working with every major provider, Forsythe acts as your single point of contact for managing the cost, effectiveness, and risk related to your information systems.

Let Forsythe Help.

Business objectives—and business issues—don't exist in a vacuum. Forsythe identifies and addresses IT interdependencies to deliver solutions that work across your enterprise. Call us today.

