

Uptime Institute Professional Services, LLC delivers consulting services based on the Uptime Institute's intellectual property, including Certifications to the Tier Classification System and Operational Sustainability.

Overview

The purpose of the *Performance Requirements and Design Assumptions (PRDA)* document is to provide a detailed, high-level narrative of the performance requirements, capacity (computer room, electrical [kilowatts], cooling [tons]) and other assumptions that the project architect and engineer must satisfy when developing an acceptable design solution. This narrative is sufficiently detailed that it can be used to develop project budgets without the time and expense required to develop detailed design drawings and specifications for competitive bidding.

The *PRDA* document can also be used to set company-wide standards for what constitutes a corporate data center, a regional data center, a building technology space, and a closet-type server space. In each case, the *PRDA* document outlines the requirements for a design solution. Each *PRDA* document is customized to address specific client needs. The premise of many *PRDAs* is that the initial level of capacity and functionality (redundancy, Fault Tolerance, Concurrent Maintenance) must be transparently expandable in the future without requiring critical load disruption or shutdown during construction.

Save Money, Meet Schedule, and Ensure Project Success

The *PRDA* is the comprehensive presentation of the information necessary to drive the design, specification, and construction of the data center project. A summary narrative section outlines the business drivers and requirements for the project. The five technical sections are:

- Site Selection
- Architectural Infrastructure Systems
- Electrical Infrastructure Systems
- Mechanical Infrastructure Systems
- Support Infrastructure Systems

Each of these major sections has a number of additional subsections, including narrative description of the performance requirements, capacity, and other assumptions for each of the applicable site infrastructure subsystems. Written in simple and understandable terms, the *PRDA* sections and subsections provide the technical direction required by the Engineer-of-Record to quickly begin detailed design. This strategic direction can cut up to three months from the project cycle.

As the design evolves, the *PRDA* serves as a checklist to track design and construction. This approach ensures that the data center owner gets what its business specifically needs. This avoids re-designing the project multiple times and reduces change orders. Because life-cycle requirements are established at the beginning of the project, the resulting design can be optimized and has a favorable impact on long-term operating costs and site infrastructure availability.

Why Uptime Institute Professional Services?

- FIRST & ONLY to consult and Certify to the Tier Classification System
- DATA CENTER SPECIALISTS serving those organizations with the highest uptime requirements
- NON-BIASED, vendor-neutral, 100% customer-focused *leading-edge* support
- REAL EXPERTISE from consultants with 30+ years of 'hands on' data center operations experience
- SINGULAR ACCESS to world's largest database on *why* things go wrong

Uptime Institute Professional Services is a data center engineering and management consulting firm whose mission is to work with clients to ensure data centers are managed for uninterruptible uptime over sustained periods. Uptime Institute Professional Services consultants and licensed engineers have backgrounds in data center operations and function as an outsourced C-level infrastructure expert to clients, providing Principal-level consulting and education to clients during any stage of a project.

Uptime Institute Professional Services consultants comprehensively evaluate existing data center facilities by documenting risk factors for an outage as well as recognizing best practices. The firm's consultants also collaborate on major data center construction projects and operations management. Uptime Institute Professional Services consults and Certifies to the Tier Classification System as part of data center sustained availability efforts.

Independent of any Engineer-of-Record or manufacturer affiliation, Uptime Institute Professional Services consulting teams help clients develop and execute solutions that are responsive to their unique business needs. Since 1985, Uptime Institute Professional Services has guided and justified data center investments for major organizations that require high levels of continuous availability to conduct business.