

Mission Critical Facilities – Standards Based Tier Classifications

Presentation Abstract:

Over the last 40 years, Mission Critical Facilities infrastructure designs have evolved through at least four distinct stages. The Uptime Institute, Inc. captured those stages through a tiered classification approach to site infrastructure functionality and redundancy. The concept of 'Availability' of systems (9's of availability) and how this corresponds to downtime per year is explored. The concept of 'Need' (N+1, N+2, etc) and how redundancy affects availability is discussed. The four tier levels and their associated effect on fault tolerance are explained with graphical representations of the mechanical and electrical systems used at each tier level.

Approximately 45 minutes

Presented by: Jim Pfefferkorn, PE, RCDD/OSP, LEED AP

Mr. Pfefferkorn holds a BSME from Virginia Polytechnic Institute and State University and is a licensed professional engineer in 17 states and the District of Columbia. He is a LEED Accredited Professional, a Registered Communication Distribution Designer and Outside Plant Specialist. He has over 20 years engineering experience and his current areas of expertise include the design of telecommunications, security, lighting and electrical power systems.

Mr. Pfefferkorn has taught training courses for other engineering professionals in the areas of Mission Critical Facilities design, telecommunications design, electrical systems and project management. He has published articles concerning telecommunications design in trade publications.