



## NEW YORK TRI-STATE DATA CENTER OFFERING

*The Palisades Data Center, Powered by* **SKAE**



The Palisades Data Center is a state-of-the-art 24,000 square foot facility including data center space, disaster recovery space, and office space designated as business continuity space supported by a network operations center featuring remote monitoring services. The following is currently available:

- ✓ Scalable Data Center
- ✓ Scalable to 500kW
- ✓ Expandable to 100 Cabinets
- ✓ Redundant Power Design
- ✓ Redundant Cooling Design
- ✓ Concurrently Maintainable
- ✓ Multiple Fiber Providers

- ✓ Diverse Fiber POE's
- ✓ Secure, Dedicated Space
- ✓ State of the Art Security
- ✓ Highly Efficient
- ✓ Pre-Action Fire Suppression
- ✓ Continuous Monitoring
- ✓ Office Space Available
- ✓ 12 Miles to NYC
- ✓ Low PUE
- ✓ DCIM
- ✓ Remote Hands Services

For more information on the Palisades Data Center, or to schedule a property tour, please contact Mairin McPartland at 845-365-9105 at extension 123, or [mamcpartland@skaepower.com](mailto:mamcpartland@skaepower.com).

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## ARE YOUR EMPLOYEES PREPARED FOR AN ARC FLASH INCIDENT?

Electric current passing through the air between ungrounded conductors (or between ungrounded and grounded conductors) can generate temperatures reaching 35,000°F. Exposure to these extreme temperatures will burn the skin, and can ignite clothing, which adds to the burn injury. The majority of hospital admissions due to electrical accidents are from arc-flash burns, not from electrical shocks.

Whereas the Occupational Safety and Health Administration (OSHA) mandates warning workers of arc-flash hazards, it does not mandate "how" this is to be accomplished, thereby leaving each company some leeway in how to implement a plan to identify and protect their workers. At present, the National Electrical Code (NEC) only goes one step further in requiring that electrical equipment be field marked to warn qualified persons of potential electric arc-flash hazards.

NFPA-70E "Standard for Electrical Safety in the Workplace", a recommended standard produced by The National Fire Protection Association, details two options for determination of the appropriate Personal Protection Equipment (PPE) required to protect personnel from the possibility of being injured by an arc-flash.

One option describes how the employer and the employee are responsible to make the determination of what level of PPE is required, in lieu of flash hazard analysis.

This method involves careful evaluation of the particular equipment involved on a case-by-case basis, and cannot be used if the electrical system has a short-circuit capacity or fault clearing times greater than the basis for the included NFPA 70E tables.

The second option calls for performance of an arc flash hazard analysis in accordance with calculations defined by IEEE 1584 or NFPA 70E for determination of appropriate Personal Protection Equipment (PPE). SKAE Engineering Solutions (SES) has performed many Arc Flash studies over the past several years and is uniquely qualified to perform this analysis in addition to necessary pre-requisites which include electrical short-circuit and coordination analysis, and as necessary, collection of distribution system equipment data. SES has also provided the necessary safety procedures and training to various clients to ensure their compliance with NFPA-70E.

For further information please contact Anthony Russo at [arusso@skaepower.com](mailto:arusso@skaepower.com) or John Smith at [jsmith@skaepower.com](mailto:jsmith@skaepower.com).



## RECENT & UPCOMING INDUSTRY EVENTS



- Peter F. Skae was invited to speak at the New Jersey Technology Council's Data Center Summit and Expo at Fort Monmouth in Eatontown, NJ on December 12, 2013. The Data Center Summit brought together data center infrastructure and operations IT professionals, and those responsible for business continuity and disaster recovery with senior business and technology leaders who recommend business intelligence and analytical systems and solutions that run against large and complex data sets in finance and healthcare.
- Peter F. Skae and John M. McPartland recently attended the Schneider Electric ELDC Costa Mesa Technical Preview & Business Conference in Costa Mesa, California.
- Anthony Russo, P.E., Director of Engineering at Skae Engineering

Solutions, P.C., has been invited to present an arc-flash hazards training seminar for Jones Lang LaSalle engineers at 200 West Street in New York City in January 2014. The training seminar will cover the NFPA-70E 2012 electrical safety program and background codes and standards.

- Skae Power Solutions LLC hosted a Lunch and Learn seminar with Midtronics Inc., a Chicago based manufacturer of battery testing and monitoring equipment. Peter Grimes, Director of Sales for Midtronics Inc., discussed the basic theory of using conductance to evaluate batteries, reviewed lead acid battery basics and maintenance procedures, and presented the Midtronics battery monitoring solution.

Special thank you to Peter for the informative seminar!

## SPOTLIGHT ON: ROBERT BISCHOFF

Robert "Bob" Bischoff is the Manager of Commissioning Services for Skae Power Solutions LLC. Bob has over 25 years of experience in the analysis, design, installation, testing and maintenance of electrical power systems in large commercial and industrial facilities. He is responsible for the full range of activities on a variety of design, commissioning, maintenance and construction management projects for the company, and he has particular expertise in the commissioning, maintenance, and testing of mission critical power system equipment.

Bob joined Skae Power Solutions in August 2004 and has since served as the Project Manager for the installation and commissioning/testing of a new eight (8) megawatt emergency diesel generator power system for a large industrial facility client. He has also coordinated numerous electrical maintenance shutdowns and performed post maintenance acceptance testing of mission critical power system equipment for various clients.

Bob was the lead engineer responsible for NETA acceptance testing for the mission critical power system data center expansion for a major financial services firm at their Carteret, NJ and Bridgewater, NJ facilities.

During Hurricane Sandy, Bob was instrumental in leading the on-site efforts to restore power to major tenants located in downtown NYC. Over the past year, he has maintained a lead role in several projects for clients who are replacing equipment and/or hardening their electrical systems as a result of the damage from Hurricane Sandy.

Prior to joining Skae Power Solutions LLC, Bob was a Senior Project Engineer for Johnson Controls Power Technologies (JCPT) in New York City where he performed similar duties for mission critical equipment.

Bob received a Bachelor of Technology degree in Electrical Engineering from New York Institute of Technology in 1994, where he graduated Magna Cum Laude. He received his Master of Science Degree in Management from Pace University in 2000, where he graduated Summa Cum Laude.

Bob will celebrate his 10-year anniversary with Skae Power Solutions in 2014.



Congrats Bob!

## A CURE FOR MS...MISSION CRITICAL

Thank you to everyone who supported Team Skae Power in this year's Bike MS NYC race. We experienced a great ride and helped fund the National MS Society research, and those living with MS. With your support our team grew to 100 members and raised over \$40,000!

We are already recruiting for our 2014 team, so please consider joining us again next year!



## ABOUT SKAE POWER SOLUTIONS

Skae Power Solutions, LLC is a family of engineering services companies with subject matter expertise in mission critical infrastructure, delivering engineering services to the mission critical market from Maine to Maryland, at a "level of service", that is not commercially available. Headquartered in New York, with offices in Boston and Philadelphia, Skae Power Solutions has completed major installation and expansion projects for a wide variety of commercial, financial, institutional, medical, and government clients across the nation. From concept to commissioning, from site selection to total facility-managed services, Skae Power Solutions assists clients with a full range of services.

We welcome your feedback on our newsletter. If there are topics you are interested in learning more about, please e-mail Mairin McPartland at [mamcpartland@skaepower.com](mailto:mamcpartland@skaepower.com).



348 ROUTE 9W

PALISADES, NY 10964

O: 845-365-9105 F: 845-365-9104

[www.skaepower.com](http://www.skaepower.com) [www.skae.com](http://www.skae.com)

