



CRISIS MANAGEMENT

SPS Emergency Response & Crisis Management team deployed to banking client



Emergency Response and Critical Event Management are services provided on an "as needed" basis to a number of our valued clients.

On Tuesday night, February 25 at 6:45 PM, we received an emergency call from a major banking client advising us that their

emergency generator had started and the load transferred, yet the building had not lost Con Edison power. This was of major concern since the generator provides emergency power for their US Corporate headquarters and data center on Park Avenue in Midtown Manhattan.

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Securing notice to proceed from the client, the SKAE Emergency Response Team was empowered, under the direction of John McPartland, to investigate and address the issue.

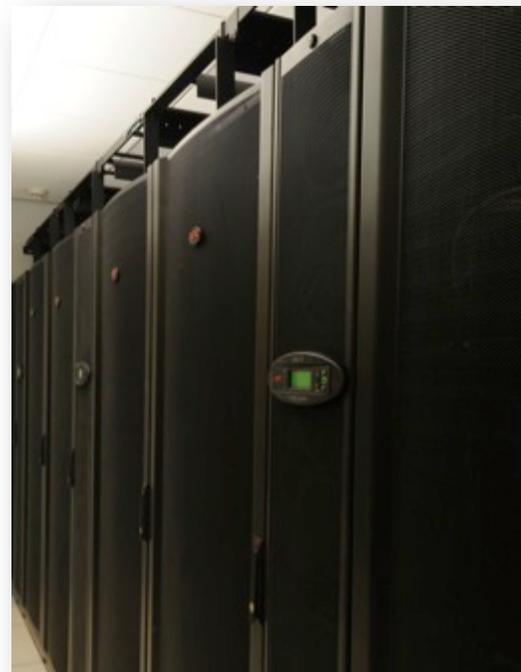
This reassured the client with the knowledge that mission critical engineers with decades of experience would begin the process of problem analysis and solution implementation. A plan optimized for mission success was crafted and agreed. From the bank management team's perspective, the due diligence had begun. Over the course of the next 48 hours, regularly scheduled conference calls were arranged to keep the bank's team apprised of the ongoing situation. SKAE Power Engineers were dispatched with disturbance analyzers to be installed at multiple locations in the building to monitor what was occurring. The disturbance analyzers were left in place for the rest of the week and the next.

There were three emergency system starts and transfers on February 25 and February 26 in an 18-hour period, all apparently without the loss of Con Ed service to the building. As luck would have it, once the disturbance analyzers were installed, there were no more starts and transfers over the next 10 days.

In response to multiple discrete inquiries, we learned that Con Edison lost a feeder in the area, at this time. It was restored sometime on February 26. Since the ATS was set to send an engine start signal if the voltage dropped to 442 volts (92% of nominal), we surmise that is what happened.

The voltage from the service switchboard dipped below 442 volts, was sensed and initiated an engine start and transfer to Emergency. Since the system operated as designed, this was transparent to the critical data center load. Since the disturbance analyzers were not installed when the engine start/transfers took place, we can't confirm this. Reviewing voltage trend data after the feeder was restored during the period monitored, we recorded a low of 450.8 volts. This led us to believe that when the feeder was out, a voltage excursion below 442 volts occurred.

Our final report to the client indicated that the emergency power system operated as designed during the sustained under voltage condition, with no interruption to the critical load. The client was satisfied with the explanation of the occurrence, and SKAE's immediate response and analysis of the event.



RECENT INDUSTRY EVENTS

- Peter F. Skae spoke 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 in finance and healthcare.
- Anthony Russo, P.E. was invited to present a Lockout/Tagout (LOTO) Safety Training seminar for Jones Lang LaSalle engineers at 200 West Street in New York City on January 16. The training seminar covered NFPA-70E 2012 electrical safety program and background codes and standards.
- Skae Power Solutions LLC senior executives attended the 7x24 Exchange Metro New York Chapter panel on power, fiber and the data center community on February 20, 2014 at the Blue Hill in Pearl River, NY.
- Anthony Russo, P.E. held the annual Arc Flash, Lockout and Electrical Safety Training for SPS engineers on Wednesday, February 19 at the SKAE NY headquarters. The training covered arc flash hazards, lockout/tagout, and electrical safety in the workplace.

As part of SKAE's ongoing safety training initiatives, HealthSav, LLC visited the NY headquarters for a CPR/First Aid and AED Training.

An OSHA 30-hour Training Course is scheduled for employees in the upcoming months.

- SPS engineers attended the 12th Annual Datacenter Dynamics Converged New York Conference and Expo at the Marriott Marquis in New York City on Tuesday, March 11, 2014. SPS joined over 1,000 other data center professionals at the event, where vendors exhibited infrastructure products, conducted software demonstrations and keynote presentations included industry research data and trends.



Peter Skae (seated second on the left) on the panel at the NJTC Data Center Summit



HealthSav, LLC CPR Training

SPOTLIGHT ON: TIM SULLIVAN

Tim Sullivan joined Team SKAE in February 2011 as an engineer supporting the engineering sales efforts for the New York and Philadelphia offices. He is Schneider Electric Certified to start-up, trouble-shoot, and maintain UPS Systems through 500kW, and works closely with the New York and Philadelphia offices.

Over the past three and a half years at SPS Tim's activities have included site surveys, design, estimating, proposal writing, project and trade management, testing, and commissioning. He also has extensive experience in providing IT "Remote Hands" for a number of SKAE clients, including work at both SKAE and client's data centers, and at the major stock exchanges. His experience extends from the service entrance switchgear down to the server level.

Tim has tested and commissioned data centers for SKAE's hedge fund clients, major medical facilities, and the first automated steel plant built in the USA in 100 years, among other projects.

Tim received his Bachelor of Science degree in Electrical Engineering from SUNY Binghamton. Residing in Nyack, NY, Tim enjoys hiking and working on cars in his spare time.

Dependable and well liked, Tim is qualified to operate in the demanding 7x24 world.



Tim Sullivan onsite

BINGHAMTON UNIVERSITY BAJA PROJECT

Skae Power Solutions LLC sponsored a team of Senior Engineers from the Thomas J. Watson School of Engineering and Applied Science at SUNY Binghamton University who are participating in the Society of Automotive Engineers (SAE) Mini Baja Eastern Competition in Peoria, Illinois in June 2014.

The senior engineering students are building a vehicle for the competition that simulates real-world engineering design projects. The team engineers, builds, tests, analyzes, promotes, and fundraises for the project. For more information on the project, please visit ws2.binghamton.edu/baja.

SKAE has six SUNY Binghamton Engineering alumni on staff, and we are pleased to support these young engineers-in-training!



New Vehicle Design



TRI-STATE DATA CENTER OFFERING: 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.

- ✓ 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, or to schedule a property tour, please contact Mairin McPartland at 845-365-9105 extension 123, or mamcpartland@skaepower.com.



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.



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