

Commercial Office Building Electrical Power Solutions

A highly desirable commercial space required safe, thorough investigation of a power failure and a reliable restoration of needed service.

A critical power loss left businesses unsure when power could be restored to their class A location.

ABM was called to investigate, and water damage was uncovered to a 2500A bus duct feeding power from the main switchgear up through the building.

A bus plug cover had shorted, and water was found inside the busway. The extent of water infiltration was verified and the busway examined for further faults.

ABM removed the damaged rear section of the bus and temporary service was made possible by testing and reinstalling the front section.



CHALLENGE

Power was lost in a Class A office building with premier tenants. Timely restoration of reliable power required eliminating the danger of further shorts and securing a safe solution for temporary service.

SOLUTION

- The shorted circuit was locked per safety procedures
- Insulation readings in excess of 100 M ohms verified along the bus duct
- Removed 10' damaged section
- Safe, temporary replacement for 10' section devised from on-site capabilities
- Power analyzer installed to verify loads on bridge solution

BENEFITS

- Interim solution successfully and safely carried load until full replacement of bus possible
- Previous damage uncovered and mitigation method for vulnerability to water infiltration specified
- Power restored in a timely manner without further danger to tenant property or building systems

ABM Electrical Power Solutions was instrumental in founding the InterNational Electrical Test Association (NETA), responsible for establishing standards for testing that ensure safe, reliable electrical power.



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