Bus Systems Services

Comprehensive services from experts in the industry
Bus Systems

Leading bus systems expertise and experience to reduce emergency events and improve performance
For over 50 years, AZZ has been at the forefront of the design and production of isolated phase, segregated phase and non-segregated phase electrical bus systems. Through long experience developing advanced bus systems, AZZ is uniquely positioned to service and maintain any manufacturer’s bus system.

As one of the few manufacturers providing bus systems service for both isolated phase and non-segregated phase bus systems, AZZ delivers a wide range of services to ensure optimal bus system performance:

- Complete installation
- Preventive maintenance
- Emergency response
- Retrofits and upgrades
- Full line of replacement parts
- Uprates of existing systems

Installation
Covering a wide range of applications and environments, AZZ specializes in turnkey bus system installations. AZZ’s field service technicians are available to provide expert supervision, technical services, on-the-job training, inspection and testing of all bus systems.

With a proven system and component design, AZZ engineered installations are backed by a two-year extended warranty for complete coverage.

Preventive Maintenance
Preventive maintenance is most effective when performed at regular intervals. AZZ’s preventive maintenance program has been developed over decades of bus systems experience, backed by expert technicians who perform comprehensive on-site diagnostics while the system remains in service.

For vital power plant components, such as an isolated phase bus system that operates without an immediate replacement solution, preventive maintenance helps avoid unscheduled outages and downtime by making repairs before failure occurs. To help identify any potential issues, AZZ conducts a detailed examination of all system components:

- Thorough visual inspection
- Advanced thermal imaging
- Diagnostic testing
- Hi-Pot Meggar testing

Proactive bus systems maintenance ensures reliable operation and avoids unscheduled outages.
**Emergency Repair**

When emergency events arise, AZZ’s 24/7 repair services are available nationwide for any manufacturer’s bus system. With in-house manufacturing capabilities and extensive bus systems experience, AZZ can provide exceptional turnaround times that meet and often exceed even the most demanding emergency repair needs.

**Transformer Swap Out**

AZZ’s preventive maintenance program is an ideal solution for coordinating transformer replacements. AZZ’s experienced technicians can assist with every step of the process, recognizing that generator step up (GSU) transformers and auxiliary transformers may require extensive considerations including new terminations, high-amperage isolated phase bus (IPB) connections to the new bushings, new short runs of IPB or possible structural modifications.

Rather than risk connecting a new transformer to a bus system that has not recently been inspected or maintained, call AZZ to ensure it is functioning properly for ideal transformer replacement.

_Avoid the associated issues and costs of a catastrophic failure with regular inspection, repair and maintenance from AZZ bus systems experts._
Dry Air Condensation Control

Condensation can build up inside an electrical bus system due to a number of factors, from poor installation or a design flaw to high-humidity climate or heating system failure. Over time, this moisture initiates corona activity, which can be accelerated by the build-up of ionized air in an enclosed space or space with no air movement. The result could be a catastrophic failure or fault, leading to unplanned outages, expensive equipment replacement and safety risks to personnel.

Protect your bus systems and your staff with a retrofitted dry air condensation control system from AZZ. The dry air system supplies a continuous flow of clean, dry air through the bus enclosure to effectively prevent condensation and ensure safe, reliable bus system operation.

High-current bus deterioration grows exponentially with time, which, left unchecked, can rapidly culminate in total system failure.

Replacement Parts

Whether a system is down for routine maintenance or an unexpected outage, having critical parts on hand saves time and could mean the difference between a small issue and major problem. AZZ offers a full line of replacement and upgrade parts to support any manufacturer’s electrical bus system, including flexible connectors, copper or aluminum bars, bellows, insulators, termination boots and hardware.

For added convenience, replacement parts can be purchased online at azz.com/replacementparts. Plus, in the event of a critical outage, AZZ may provide 24-hour turnaround so you can get the parts you need, right when you need them most.