

# Emergency Generator Maintenance and Service

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## Services Required for Generator Start and Run Time



- Emergency Response
- Preventative Maintenance and Repair Services
- Portable Generator Rentals
- Code compliance
- Load Bank Testing
- Switch Gear & Automatic Transfer Switch Services
- Fuel Tank, Battery and Radiator Services

Power Conversion Systems provides generator service and preventive maintenance for stand-by power systems. Trained technicians with the

industry experts keep your critical stand-by generator systems maintained and operating regardless of the manufacturer. Most major brands including Caterpillar, Cummins, Onan, John Deere, Kohler, MTU.

In addition to periodic maintenance on generators, we also provide ATS service, re-fueling, fuel polishing, portable rental generators, load bank services, radiator service, complete engine rebuilds, disaster response and electrical services. We have the team of techs with many years of expertise to make sure your systems are running when you need them most.

Power Conversion Systems is your one-stop-shop for all your UPS, generator, DC plant, electrical work and backup power infrastructure needs. We have the highly trained techs to support your stand-by power needs. Our techs follow industry standards and best practices, so you have confidence and can sleep at night knowing your generators are properly serviced.

### Load Bank Testing

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A Load Bank Test is the only way to predict how your generator will respond and operate with a full load during an emergency. Load banks emulate a building load and allow generators to be tested to their rated capacity. Generator maintenance plans should include an annual load bank test at a minimum.

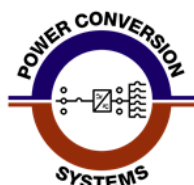
Since stand-by generators are only periodically ran and often for short periods, the condition of “Wet Stacking” is caused. This condition is a result of unburned fuel or carbon in the exhaust system and oil which can cause serious damage to an engine, loss of power, pollution, shortened engine life or pre-mature failure. This can be avoided through proper maintenance and a load test which runs the generator engine at a full load to enable the generator to reach full operating temperature to avoid “Wet Stacking.”

Power Conversion’s generator services provide the maintenance and load bank testing as recommended to avoid “Wet Stacking” and ensure the generator will support the load when needed:

- Load Banks from 5kw to 2000kw
- Tests from 2 to 8 hours
- Difficult applications where extended cable runs and roll up generators are needed

Be sure to add load bank testing to your generator and backup power maintenance program.

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## Preventive Maintenance

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Power Conversion delivers complete generator maintenance as recommended by the manufacturer, NFPA 110 and industry best practices to provide confidence that the generator will start quick and support the load. The maintenance covers:

- Fuel Systems
- Coolant Systems
- Lubrication Systems
- Air Systems
- Alternator and battery

Maintenance should include checking and replacing filters, oil, spark plugs, coolant and more. In addition, fuel tank should be check and fuel polished as needed to remove water and damaging content in the fuel. Inspection of the AC and DC electrical system and panels is also be included.

## Switch Gear/Distribution/ ATS Services

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Often overlooked in critical power systems is the switchgear and Automatic Transfer Switch (ATS) which is crucial to maintain as part of your electrical system. Many switchgear failures can be catastrophic when they occur, resulting in long lead times and very high costs.

Power Conversion Systems provides services to maintain switchgear and ATS equipment for uptime and reliability. We provide breaker maintenance, thermography, IR Scanning, coordination studies, breaker change out service and more, to maintain the reliability of your systems. Be sure to include the electrical system and ATS as part of your maintenance program.

## Code Requirements

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Following are a few of the many Federal, State and local code and regulations that are enforced focused on Generator Maintenance. A scheduled maintenance plan will help ensure that your generator in compliance.

### **NFPA 110 - Standard for Emergency and Standby Power Systems**

This standard covers performance requirements for emergency and standby power systems providing an alternate source of electrical power in buildings and facilities in the event that the normal electrical power source fails. Systems include power sources, transfer equipment, controls, supervisory equipment, and accessory equipment needed to supply electrical power to the selected circuits.

### **NFPA 99 - Health Care Facilities Code**

NFPA 99 establishes criteria for levels of health care services or systems based on risk to the patients, staff, or visitors in health care facilities to minimize the hazards of fire, explosion, and electricity.

## Power Conversion Systems Maintenance and Service Plans

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Have confidence that your generators will work during a power outage. PCSC offers Generator Service and Preventative Maintenance Plans to meet your needs. Select from Platinum, Gold and Silver maintenance plans and number of PMs per year based on your specific uptime requirements. With competitive pricing, you cannot afford the risk to be without a maintenance plan. Contract PCSC today.

*Be sure to request PCSC Maintenance and Service Plan to protect your Generator investment.*

## Contact Info

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9400 7<sup>th</sup> Street, Suite C2 | Rancho Cucamonga, CA 91730 | 800-431-4791 | FAX: 877-864-7489

Visit us at: [www.ups-power.com](http://www.ups-power.com)

