

# Global Power Supply Preventative Maintenance

Protecting your critical facility begins with selecting the right equipment but for long term reliability you need the most comprehensive service package available. From UPS support to generator maintenance, Global Power Supply can deliver multi-vendor field support solutions that are cost effective and easy to implement.

Global Power Supply is a full service provider of integrated power systems including diesel generators & natural gas generators, custom enclosures, fuel tanks, exhaust systems, automatic transfer switches & paralleling switchgear.



When you partner with Global Power Supply you will receive technical support from our engineers, project management coordination from our production team and preferred access to multiple manufacturers with quick delivery inventory...providing you with all of the necessary resources to keep your facility online.

## Generator Preventative Maintenance Scope of Work

Select from three level of support to meet the specific needs of your facility.

### Level One Generator Maintenance Sample Scope of Work

ü Belts	Inspect for worn, broken or loose, and adjust
ü Cooling System	Maintain proper coolant level
ü Jacket Water Heater	Check and record blockage
ü Engine Crankcase	Check the oil level and add as necessary
ü Governor	Check for proper operation
ü Fuel System	Inspect for leaks from tank supply lines to engine
ü Batteries	Maintain electrolyte level & check connections
ü Gauges	Inspect the condition of all gauges
ü Battery Charger	Inspect for proper operation and adjust as necessary
ü Start Engine	Run engine to standard operating temperature
ü Oil Pressure	Inspect for proper oil pressure and record readings
ü Fuel Pressure	Inspect for proper fuel pressure and record readings
ü Frequency	Inspect for correct RPM/HZ, adjust as needed and record
ü Voltage	Inspect for correct voltage adjust as needed and record
ü Leaks	Inspect and record leaks (oil, coolant, fuel, air, exhaust)

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## Level Two Generator Maintenance Sample Scope of Work

- |                    |  |
|--------------------|--|
| ü Level One        | Complete all Level One Scope of Work   |
| ü Fuel System      | Change fuel filters                    |
| ü Cooling System   | Check for proper mixture of antifreeze |
| ü Engine Crankcase | Change oil and filters                 |
| ü Oil Analysis     | Take oil sample for analysis           |

## Level Three Generator Maintenance Sample Scope of Work

- |                  |  |
|------------------|--|
| ü Level One      | Complete all Level One Scope of Work                   |
| ü Level Two      | Complete all Level Two Scope of Work                   |
| ü Cooling System | Replace: belts, flexible hoses, coolant, radiator cap. |
| ü Battery        | Replace batteries                                      |

## Generator Load Bank Services Scope of Work

- ü Place generator mode from "Auto" to "Off" position
- ü Place automatic transfer switch from "Auto" to "Manual" mode
- ü Connect load bank cables on output breaker of generator
- ü Start generator
- ü Turn on load bank and load generator for 25% of nameplate rating for 30 minutes
- ü Record all applicable readings including: voltage, frequency, coolant temp, and oil pressure
- ü Followed by 50% of nameplate rating for 30 minutes
- ü Record all applicable readings including: voltage, frequency, coolant temp, and oil pressure
- ü Followed by 75% of nameplate rating for 60 minutes, for a total of 2 continuous hours
- ü Record all applicable readings including: voltage, frequency, coolant temp, and oil pressure
- ü Check for frequency deviations and correct accordingly
- ü Check voltage stabilization and correct accordingly
- ü Check water temperature and oil pressure for stabilization
- ü Check for leaks or cracks in generator set
- ü Perform a temperature scan on all major components, power connections, and controls
- ü Perform a complete visual inspection of all major components.
- ü Disconnect load bank cables from output of generator
- ü Place automatic transfer switch from "Manual" to "Auto" mode
- ü Place generator mode from "Off" to "Auto" position
- ü Recommend corrective action if necessary
- ü Provide complete Load Bank report summary.