Keep your power plant running and prevent failures with expert generator maintenance

Unscheduled breakdowns result in costly downtime. With **BWSC**, you get generator care that **reduces risks, extends equipment lifetime, and optimizes performance.**

Why partner with BWSC?

With over 40 years of building, maintaining and operating power plants, BWSC deliver tailored solutions designed to overcome challenges and optimize outcomes for our customers.

Safety first, before any work begins.

Every generator serviced by BWSC is fully secured, isolated, and locked out before work begins with all services performed under strict compliance with QHSE policies and local safety regulations, ensuring the highest level of protection for both personnel and equipment.

BWSC is certified according to ISO 14001, 45001, and 9001.

Benefits

- Reduce risks of failures
- Improve maintenance planning
- Extend generator lifetime

Recommended maintenance plan

- A* Service, every 4–8,000 hours (or 1 year)
- B* Service, every 16,000 hours (or 2 years)
- C* Service, every 30-50,000 hours (or 6 years)

See the back for more information

Generator performance inspection & test

General visual inspection of:

- General constructions and connections
- Stator
- Rotor (without removal)
- Brush gear
- Excitation system
- Control equipment
- Coolers
- Bearings
- Lubrication

Inspection for Corona

See the back for more information

Measurements

- IR - Generator insulation resistance test, including calculation of measured insulation
- PI - Determination of the generator polarizations index
- DAR - Dielectric absorption test
- DD - Dielectric discharge test
- Stator resistance measurement

Recommended maintenance plan

Activity description	Service A*	Service B*	Service C*	Service X*
Recommended service intervals	***4-8,000 running hours** or 1 year***	***16,000 running hours** or 2 years***	***30,000-50,000 running hours** or 6 years***	***Performed upon request***
Observations during operation	X	X	X	
Visual inspection	X	X	X	
Insulation resistance (IR) measurements	X	X	X	
Polarization Index (PI)	X	X	X	
Dielectric Absorption test (DAR)	X	X	X	
Dielectric Discharge test (DD)	X	X	X	
Measuring of air gap stator/rotor		X	X	
Visual check of air gap stator/rotor	X	X	X	
Stator winding resistance measurement	X	X	X	
Voltage droptest		X	X	
Test of space heater		X	X	
Check of space heater	X			
Bearing inspection			X	
Major overhaul			X	
Test of instruments, transmitters etc.			X	
Realignment of the generator			X	
Partial Discharge test				X
Ultra Sonic and HV-test				X
Tan Delta				X
ELCID				X
Scrutiny of AVR settings				X
Scrutiny of protection relay settings				X
Protection relay test				X
Generator circuit breaker inspection				X

**Note that category C includes category B service, a category B interval includes an category A service*
*** Subject to actual condition. Running hours shall also consider number of starts as: $T_{eq.r}$ = Actual running hrs. + number of start-ups x 20*

For further information, please see our website: www.BWSC.com