

Generator Inspection & Maintenance Services

Extending generator service life while reducing costs and maintaining reliability





Generator inspection & maintenance

With BWSC, you get generator care that reduces risks, extends equipment lifetime, and optimizes performance.



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 page 3 for more information

Why Partner with BWSC?

A well-maintained engine minimises its operational downtime.

BWSC Panama delivers specialized inspection, assessment, and maintenance services for large industrial AC generators. All activities are tailored to the specific generator type and aligned with OEM recommendations, ensuring technical precision, operational safety, and long-term reliability.

Every generator serviced by BWSC is fully secured, isolated, and locked out prior to work commencing. All services are performed in strict compliance with QHSE policies and local safety regulations, ensuring the highest level of protection for both personnel and equipment.

Services are carried out in close coordination with on-site personnel and are fully documented in a detailed technical report, including findings, measurements, photographic evidence, and clear maintenance recommendations.

BWSC is certified in accordance with ISO 14001, ISO 45001, and ISO 9001.

Tailored Maintenance Solutions

Each service is concluded with a detailed report containing photos, test results, and actionable insights.

Service description	Service A*	Service B*	Service C*	Service X*
Scope of supply: can be tailored by any combination of below services.	1 year	2 years	6 years	Upon request
Observations during operation	●	●	●	
Visual inspection	●	●	●	
Insulation resistance (IR) measurements	●	●	●	
Polarization Index (PI)	●	●	●	
Dielectric Absorption test (DAR)	●	●	●	
Dielectric Discharge test (DD)	●	●	●	
Measuring of air gap stator/rotor		●	●	
Visual check of air gap stator/rotor	●	●	●	
Stator winding resistance measurement	●	●	●	
Voltage droptest		●	●	
Test of space heater		●	●	
Check of space heater	●			
Bearing inspection			●	
Major overhaul			●	
Test of instruments, transmitters etc.			●	
Realignment of the generator			●	
Partial Discharge test				●
Ultra Sonic and HV-test				●
Tan Delta				●
ELCID				●
Scrutiny of AVR settings				●
Scrutiny of protection relay settings				●
Protection relay test				●
Generator circuit breaker inspection				●

*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: $T_{eq,r} = \text{Actual running hrs.} + \text{number of start-ups} \times 20$

Operational Excellence

Operating in the Panama Canal requires precision, responsiveness, and reliable execution. BWSC Panama S.A. is structured to support time-critical marine and industrial operations where delays are not an option.

By combining advanced workshop capabilities with rapid on-site and onboard services, we ensure efficient project execution, minimized downtime, and seamless coordination from planning through completion.

BWSC



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