

# GENERATOR & TRANSFER SWITCH PLANNED MAINTENANCE

## INSPECTION MONTHLY, QUARTERLY, OR ANNUALLY

### Battery & Battery Charger System

- ✓ Check battery charger functions
- ✓ Cable connections, termination cleanliness & security
- ✓ Check electrolyte level, vent caps of all cells in the starting batteries
- ✓ Load test batteries

### Fuel System

- ✓ Inspect main tank/day tank fuel level
- ✓ Inspect day tank controls & pumps, test day tank controls *(where available)*
- ✓ Inspect all fuel hoses, clamps, pipes, components, filters & fittings
- ✓ Inspect governor linkage
- ✓ Visually inspect rupture/containment basin
- ✓ Test for water in fuel for base tank and/or day tanks
- ✓ Optional: fuel sample for laboratory analysis

### Engine Cooling System

- ✓ Inspect all hoses & clamps for leaks, coolant level & condition
- ✓ Inspect radiator cap & filler neck condition
- ✓ Inspect drive belts, observe alignment & deflection
- ✓ Check coolant heater operations
- ✓ Utilize DCA test strip to record coolant properties
- ✓ Inspect radiator surfaces, coils, tanks, shrouds & barriers for condition & obstructions
- ✓ Visually inspect low temperature after cooler
- ✓ Optional: coolant sampling for laboratory analysis

### Engine Lubrication System

- ✓ Inspect lubrication system  
*(visually check oil level and condition, check filter condition)*
- ✓ Inspect crankcase ventilation system

### Intake/Exhaust System

- ✓ Inspect air cleaner element & entire intake system
- ✓ Inspect exhaust system & rain cap
- ✓ Inspect louver operations

### Generator Controls & Power Connections

- ✓ Visually inspect all engine mounted wiring, senders & devices
- ✓ Visually inspect all unit mounted control components & wiring
- ✓ Test all lights & indicators
- ✓ Visually inspect breaker, power connections, governor & voltage regulator

### Generator Operations

- ✓ Start & observe generator engine operation
- ✓ Verify engine & generator safeties for proper operation
- ✓ System transfer test, or no-load run test

### Automatic Transfer Switch

#### *Paralleling Switchgear, Bypass Switchgear, Manual Transfer Switches*

- ✓ Visually inspect all power & control wiring
- ✓ Visually inspect switch mechanism & enclosure
- ✓ Visually inspect controls & time delay settings
- ✓ Verify function of exercise clock
- ✓ Conduct transfer testing (owner's discretion) to verify switch selling & operations

## FULL SERVICE INCLUDES ALL INSPECTION ITEMS

### Operational & Functional Review of Generator Critical Components

- ✓ Check all pulleys, belt tensioners, slack adjusters & idler pulleys for travel, wear & overall condition
- ✓ Inspect & lubricate drive bearings, gear or belt drives, lovejoy & other connecting hardware

### Other Services Available

Load bank testing, fuel polishing, custom upgrades & generator set rentals. All services can be customized to your application and requirements.

### Lubrication Oil & Filtration Service

- ✓ Change engine lubrication oil, governor oil, & oil bath air filter oil, if applicable
- ✓ Change primary lubrication & bypass filters
- ✓ Change fuel fillers
- ✓ Post lube service operation of genset (unloaded) at rated temperature *Optional: oil sample for laboratory analysis*
- ✓ If applicable, change coolant fillers to adjust DCA concentration