

# EPSS Maintenance Log

Source: NFPA 110-2016 Figure A.8.3.1(b)

Generator Model: \_\_\_\_\_

Engine Model: \_\_\_\_\_

Date Installed: \_\_\_\_\_

Standby kW nameplate rating: \_\_\_\_\_ kW

30% of Standby Rating: \_\_\_\_\_ kW

Fuel: \_\_\_\_\_ Normal Operating Temp: \_\_\_\_\_ F

Performed by: (Initials)



Component (as applicable)	W=Weekly	S=Semi-Annual	Date																			
	M=Monthly	A=Annually																				
	Q=Quarterly	#'s=hours	Fill In Appropriate Readings																			
	Level 1	Level 2																				

## Fuel System

Main supply tank level	W	M																				
Day tank level	W	M																				
Day tank float switch	W	Q																				
Supply or transfer pump operation	W	Q																				
Solenoid valve operation	W	Q																				
Strainer, filter and/or dirt leg	Q	Q																				
Water in system	W	Q																				
Flexible hose and connectors	W	M																				
Tank vents/overflow pipe blocked	A	A																				
Piping	A	A																				
Wiring in fuel system	A	A																				
Fuel in main tank	A	A																				

## Lubrication System

Oil level	W	M																				
Oil change	50 or A	50 or A																				
Oil filter	50 or A	50 or A																				
Lube oil heater	W	M																				
Crankcase breather	Q	S																				

## Cooling System

Coolant level	W	M																				
Antifreeze protection level	S	A																				
Antifreeze	A	A																				
Adequate cooling water to heat exchanger	W	M																				
Rod out heat exchanger	A	A																				
Adequate fresh air through radiator	W	M																				
Clean exterior of radiator	A	A																				
Fan and alternator belts	M	Q																				
Water pump	W	Q																				
Flexible water hoses and connections	W	M																				
Jacket water heater	W	M																				
Inspect ductwork, clean louvers	A	A																				
Louver motor and controls	A	A																				

## Exhaust System

Leakage	W	M																				
Drain condensate trap	W	M																				
Insulation and fire hazards	Q	Q																				
Excessive back pressure	A	A																				
Exhaust system hanger and supports	A	A																				
Flexible exhaust section	S	S																				

## Battery System

Electrolyte level	W	M																				
Terminals clean and tight	Q	Q																				
Remove corrosion from case	M	M																				
Specific gravity or state of charge	M	M																				
Charger and charge rate	M	M																				
Equalize charge	M	M																				

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Level 1	Level 2	Fill In Appropriate Readings											

## Electrical System

General inspection	W	M																	
Tighten control and power wiring connections	A	A																	
Wire chafing if subject to movement	Q	S																	
Operation of safeties and alarms	S	S																	
Boxes, panels and cabinets	S	S																	
Circuit breakers, fuses	M	A																	
Transfer switch main contacts	A	A																	
Calibration of voltage-sensing relays/devices	A	A																	
Wire insulation breakdown	5/500 <sup>a</sup>	3/500 <sup>b</sup>																	

## Prime Mover (Engine)

General inspection	W	M																	
Service air cleaner	S	S																	
Governor oil level and linkage	M	M																	
Governor oil	A	A																	
Ignition system - plugs, cap, rotor, secondary wire insulation	A	A																	
Choke setting and carburetor adjustment	S	S																	
Injector pump and injectors for flow rate, pressure, and/or spray pattern	A	A																	
Load test at minimum of 30% nameplate rating	3/4 <sup>c</sup>	3/4 <sup>c</sup>																	
Valve clearance	3/500 <sup>b</sup>	3/500 <sup>b</sup>																	
Torque bolts	3/500 <sup>b</sup>	3/500 <sup>b</sup>																	

## Generator End

Brush length, appearance free to move in holder	S	S																	
Commutator and slip rings	A	A																	
Rotor and stator	A	A																	
Bearings	A	A																	
Bearing grease	A	A																	
Exciter	A	A																	
Voltage regulator	A	A																	
Measure and record resistance readings of windings with insulation tester (Megger)	A	A																	

## General Condition

Unusual noises, vibrations, leakage, temperatures or deterioration	W	M																	
Service room/surrounding area	W	M																	
<b>Restore system to automatic operation condition</b>	W	M																	

a Every 5 years or 500 hours

b Every 3 years or 500 hours

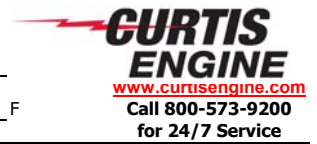
c Every 3 years for 4 hours

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Component (as applicable)

**Automatic Transfer Switch**

General inspection	W	M																	
Exercise the system under load	W	M																	
Automatic control system	M	Q																	
Cabinet exterior	M	Q																	
Tighten external components	M	Q																	
External operating mechanism	Q	A																	
Inspect interior of transfer switch	Q	A																	
Tighten internal components	A	A																	
LED indicators and remote control systems operation	A	A																	
Transfer switch main contacts	A	A																	
Tighten wiring connections	A	A																	
Thermographic temperature scan	A	A																	
Wire insulation deterioration	A	A																	