EPSS Maintenance Schedule

Suggested Maintenance Schedule for Emergency Power Supply Systems (EPSSs) Source: NFPA 110-2016 Figure A.8.3.1(a)



Call 800-573-9200 for 24/7 Service

						W=Weekly M=Monthly	S=Semi-Annual A=Annually
	Visual	(X=A	Action; R=Re	place, if ne	eded)	Q=Quarterly	#'s=hours
Component (as applicable)	Inspection	Check	Change		Test	Level 1	Level 2
Fuel System							
Main supply tank level		Х				W	М
Day tank level	Х	X	†			W	M
Day tank float switch	X		1		Х	W	Q
Supply or transfer pump operation	X		1		X	W	Q
Solenoid valve operation	X		†		X	W	Q
Strainer, filter and/or dirt leg	,		1	Х	,,	Q	Q
Water in system		Х	1	X		W	Q
Flexible hose and connectors	Х	- , ,	R	,,		W	M
Tank vents/overflow pipe blocked	,	Х	1		Χ	A	A
Piping	Х	- , ,	1		,,	A	A
Wiring in fuel system	X		1			A	A
Fuel in main tank			R			A	A
Lubrication System	1	1	., .,		1		
Oil level	Х	Х				W	М
Oil change	,	- , ,	R			50 or A	50 or A
Oil filter			R			50 or A	50 or A
Lube oil heater		Х	 `` 			W	M
Crankcase breather	Х		R	Х		Q	S
Cooling System	Λ.		<u> </u>	7.		١ ٧	J
Coolant level	Х	Х				W	М
Antifreeze protection level			1		Х	S	A
Antifreeze			R		,,	A	A
Adequate cooling water to heat			 `` 				,,
exchanger		Х				w	М
Rod out heat exchanger			1	Х		A	A
Adequate fresh air through radiator		Х	1			W	M
Clean exterior of radiator			1	Х		A	A
Fan and alternator belts	Х	Х	1			M	Q
Water pump	X		1			W	Q
Flexible water hoses and connections	X	Х	+			W	M
Jacket water heater		X	+			W	M
Inspect ductwork, clean louvers	Х	X	+ +	Х		A	A
Louver motor and controls	X	Λ		X	Х	A	A
Exhaust System	Λ			٨	Λ		
Leakage	Х	Х	1			W	М
Drain condensate trap	^	X	+ +			W	M
Insulation and fire hazards	X		 			Q	Q
Excessive back pressure	X		 		X	A	A
Exhaust system hanger and supports	X		+			A	A
Flexible exhaust section	X		+			S	S
Battery System	^					3	<u> </u>
Electrolyte level		Х	<u> </u>			W	М
Terminals clean and tight	X	X	 			Q	Q
Remove corrosion from case	X		 	Х		M	M
Specific gravity or state of charge	^		 	٨	Х	M	M
Charger and charge rate	X		 		^	M	M
Equalize charge	^	X	 			M	M
Equalize Charge		^				۱۲۱	1*1

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Suggested Maintenance Schedule for Emergency Power Supply Systems (EPSSs) Source: NFPA 110-2016 Figure A.8.3.1(a)



Call 800-573-9200 for 24/7 Service

					101 24/7 Service		
Component (as applicable)						W=Weekly M=Monthly	S=Semi-Annual A=Annually #'s=hours Level 2
	Visual	(Y=	Action; R=Re	nlace if ne	eded)	Q=Quarterly	
	Inspection	Check	Change	Clean	Test	Level 1	
			,				
Electrical System			1		ı	1 14/	
General inspection	Χ					W	М
Tighten control and power wiring		v					
connections		X				A	A
Wire chafing if subject to movement	Χ	X				Q	S
Operation of safeties and alarms		X				S	S
Boxes, panels and cabinets				X	.,	S	S
Circuit breakers, fuses	X	Х	R	X	Х	M	A
Transfer switch main contacts	Х			Х		Α	Α
Calibration of voltage-sensing		.,			.,	_	_
relays/devices		Х			Х	A	A
Wire insulation breakdown					Χ	5/500 ^a	3/500 ^b
Prime Mover (Engine)					•	•	
General inspection	X					W	М
Service air cleaner			R	Χ		S	S
Governor oil level and linkage	X	X				М	M
Governor oil			R			Α	Α
Ignition system - plugs, cap, rotor,							
secondary wire insulation	X	X	R	Χ	Х	Α	Α
Choke setting and carburetor							
adjustment		X				S	S
Injector pump and injectors for flow							
rate, pressure, and/or spray pattern					Х	Α	Α
Load test at minimum of 30%							
nameplate rating					Х	3/4 ^c	3/4 ^c
Valve clearance					Χ	3/500 ^b	3/500 ^b
Torque bolts					Х	3/500 ^b	3/500 ^b
Generator End							
Brush length, appearance free to move							
in holder	X	Χ		Χ		S	S
Commutator and slip rings	X			Χ		Α	Α
Rotor and stator	X			Χ		Α	Α
Bearings	X		R			Α	Α
Bearing grease		Χ	R			Α	Α
Exciter	X	Χ		Χ		Α	Α
Voltage regulator	X	Χ		Χ		Α	Α
Measure and record resistance readings							
of windings with insulation tester							
(Megger)					Χ	Α	Α
General Condition					•	•	
Unusual noises, vibrations, leakage,							
temperatures or deterioration	Х			Χ		W	М
Service room/surrounding area	Х			Х		W	М
Restore system to automatic							
operation condition	X					W	М
= = ====	-		-			-	

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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Call 800-573-9200 for 24/7 Service

						tor 24/	/ Service
						W=Weekly M=Monthly	S=Semi-Annual A=Annually
Component (as applicable)	Visual Inspection	(X=Action; R=Replace, if needed)				Q=Quarterly	#'s=hours
		Check	Change	Clean	Test	Level 1	Level 2
Automatic Transfer Switch							
General inspection	X					W	М
Exercise the system under load					Χ	W	М
Automatic control system					Χ	М	Q
Cabinet exterior	X			Χ		М	Q
Tighten external components	X	Χ				М	Q
External operating mechanism	X			Χ		Q	A
Inspect interior of transfer switch	X					Q	Α
Tighten internal components	X	Χ				A	Α
LED indicators and remote control							
systems operation					Χ	Α	Α
Transfer switch main contacts	X		R	Х		Α	Α
Tighten wiring connections		Χ				Α	Α
Thermographic temperature scan					Χ	Α	Α
Wire insulation deterioration					Х	Α	Α