

are to be considered and labeled as emergency vehicles with authorized site passage

#### 11. Communications

- a. Portable cell towers available and capable of being placed and made operational in short time
- b. Site two-way radios and cell phones charged and fully operational
- c. Site data reception and transmission systems inspected and proper operation tested with remote facilities and personnel

#### 12. Generator

- a. Windings clean
- b. Space heaters operational
- c. Bearings properly greased
- d. Air intake and exhaust air paths cleaned of dirt, debris and obstructions

#### 13. Cooling System

- a. Proper levels
- b. Leaks inspected and corrected as needed

Phase III – Rapid Threat Response

Phase IV – Post Disaster Recovery

# D-2 Emergency Power Supply System Checklist for Operating During Emergency from FEMA P-1019 Guidebook 1. Combustion Air Intake a. Louvers Operational with no restricted movement and no obstructions 2. Output Circuit Breakers a. Closed or ready and able to close if electricity operated 3. Fuel Quality tested and storage vessels maintained to prevent water and preve

- a. Fuel quality tested and storage vessels maintained to prevent water accumulation and bacterial growth
- b. Storage vessels, including day tanks, topped to appropriate levels
- c. Fuel transfer pumps powered by emergency system and periodically tested
- d. Water separators drained

## 4. Engine oil

a. Level checked periodically and determined proper

## 5. Consumables – Restock to 10 day supply (minimum) in on-site storage

- a. Fuel filters
- b. Oil filters
- c. Air filters
- d. Oil
- e. Coolant

### 6. Local, State and Federal Authorities and Service Organizations

- a. Emergency plans implemented
- b. Road maintenance crews maintaining site's public access
- c. Fuel delivery and engine generator set parts and service organizations allowed site access
- d. Service organizations implementing emergency plans to assure effective support staffing is available and capable

#### 7. Communications

- a. Portable cell towers available and capable of being placed and made operational in short time
- b. Site two-way radios and cell phones charged and fully operational
- c. Site data reception and transmission systems properly operating

#### 8. Generator

- a. Winding temperatures acceptable
- b. Bearings properly greased
- c. Air intake and exhaust air paths cleared of debris and obstructions
- d. Stable output voltage and frequency
- e. Ensure safe and easy access to Generators, Switchgear, Transfer Switches & Fuel Systems. Make sure that all debris is cleared from around your emergency power generators. Also, move or remove vehicles, trash compactors, containers, and other items that may block access to personnel and service trucks, including fuel providers.
- f. Behind fuel system problems, cooling system failures are the second most common source of failure during extended run times. Be sure that coolant is topped off to the proper level and that all hoses are free of leaks. Ensure that radiators are free of debris and that the radiator fan is working properly.
- g. Make sure that generators, switchgear, transfer switches and pumps are all in the On and/or Auto setting.

#### 9. Condition Monitoring

- a. Receiving data
- b. Results normal

Phase I – Vulnerability Assessment & PlanningPhase II – System Fortification & MitigationPhase III – Rapid Threat ResponsePhase IV – Post Disaster Recovery
D-3 Emergency Power Supply System Checklist for Recovery Following Emergency from FEMA P-1019 Guidebook
1. Combustion Air Intake and Exhaust Systems
a. Louvers closed and no obstructions
b. Rain cap closed
c. Exhaust piping inspected and drain condensation
d. Inspect for wet stacking and develop corrective action plan
2. Batteries
a. Charging system operational and alarms tested
b. Specific gravity and voltages checked and accepted
c. Cable connections corrosion free and tight on both ends
3. Generator set controller
a. All lock-out faults investigated, corrected and cleared
b. AUTO start engaged
4. Output circuit breakers
a. Closed or ready and able to close if electrically operated
5. Load cables
a. Cleaned and terminations checked for proper spacing and torque
6. Engine block, generator space heaters, circulating pump(s)
a. Operational and circulating warm coolant and oil (if equipped with a pump)
7. Fuel delivery system
a. Fuel quality tested and storage vessels maintained to prevent water accumulation and bacterial growth
b. Storage vessels, including day tanks, topped to appropriate levels
8. Engine Oil
a. Change oil and filter(s) and sample as needed
b. Level proper
9. Consumables - Re-stock 10 day supply (minimum) in on-site storage
a. Fuel filters
b. Oil filters
c. Air filters
d. Oil
e. Coolant
10. Local, State and Federal Authorities and Service Organizations
a. Emergency plans reviewed and improved
b. Road maintenance crews remove debris and repair damage to allow site access
c. Service organization emergency plans reviewed and improved
11. Communications
a. Portable cell towers retracted, maintained and properly stored
<ul> <li>b. Site two-way radios and cell phones charged and fully operational</li> </ul>
c. Site data reception and transmission systems inspected and proper operation tested with remote
facilities and personnel
12. Insulation system test conducted and results analyzed to detect erosion
a. Space heaters operational
b. Air intake and exhaust air paths cleared of debris and obstructions
c. Air gap between rotor pole and stator measured at 12:00, 3:00, 6:00, and 9:00 positions, recorded,
and analyzed to detect bearing wear or misalignment

- and analyzed to detect bearing wear or misalignment
- d. Excitation system inspected and tested
- e. Voltage regulator connections inspected and properly torqued
- f. Insulation system test conducted and results analyzed to detect erosion properly operating

#### 13. Cooling System

- a. Proper levels
- b. Drain, flush and replace coolant as needed
- c. Inspect and correct leaks

## Inventory of Key Generator Parts & Fuel Consumption Rates

Key Part	Manufacturer	KW Rating	# of Units on	Fuel	Size of	# of Units on	
			Hand (as of	Consumption	tank	Hand (as of	
			/) Pre-Disaster	per hour under full load	supplying fuel	/) Post-Disaster	
Generator #							
Thermostat (Engine)							
Thermostat (Water Heater Jacket)							
Motor Starter							
Fuse (multiple sizes)							
Water Heater Jacket							
Fanbelt(s)							
Heater Hose							
Fuel filter							
Fuel Water Separator Filter							
Oil filter							
Air filter							
Oil							
Coolant							
Generator #							
Thermostat (Engine)							
Thermostat (Water Heater Jacket)							
Motor Starter							
Fuse (multiple sizes) Water Heater Jacket							
Fanbelt(s) Heater Hose							
Fuel filter							
Fuel Water Separator Filter							
Oil filter							
Air filter							
Oil							
Coolant							
Generator #							
Thermostat (Engine)							
Thermostat (Water Heater Jacket)							
Motor Starter							
Fuse (multiple sizes)							
Water Heater Jacket							
Fanbelt(s)							
Heater Hose							
Fuel filter							
Fuel Water Separator Filter							
Oil filter							
Air filter							
Oil				ļ			
Coolant							
Automatic Transfer Switch							
Parts Ordering:							
Parts Department Contact Information:							
Point of Contact: Phone Number:							
Cell phone: Email:							
Secondary Point of Contact: Phone Number:							
Cell phone:		Ema	ail:				

NOTE: For facilities with more than three generators, copy this form to document parts inventory for additional generators.