



NO-BREAK E1

General Maintenance Schedule of Activities

COMPLETE A FORM QSV90 AFTER EACH INSPECTION OR MAINTENANCE VISIT.

	*Every 1 month	Every 4 month	Every year	Every 2 years	Every 10 years
1. DIESEL ENGINE					
General inspection	X*	X			
Air filter inspection cleaning	X*	X			
Air filter cleaning/replacement			X		
Check Starter Motors		X			
Check belts		X			
Other	See specific diesel engine recommendations according to # of running hours.				
2. ENGINE START BATTERIES					
Check and Maintain	X*	X			
3. CLUTCH					
Visual Inspection	X*	X			
Bearing Replacement					X
Check Gap between Friction Plates			X		
4. STATO-ALTERNATOR					
Accu Rotor Bearings greasing		X			
Check, Clean and Refill Auto Greaser		X			
Check Vibration Measurements		X			
Replace Bearings					X
5. CONTROL PANEL					
Cleaning	X*		X		
Check different System Values	X*		X		
Check battery charger	X*	X			
Check PLC Batteries			X		
Replace PLC Batteries				X	
Tighten All Electrical Connections				X	

* To Be Conducted by Customer's On Site Facility Maintenance

**NO-BREAK E1****Annual Maintenance Scope of Work****1. SERVICE A - EVERY 4 MONTHS AT SITE****Checking of the system**

- a) Stato-alternator
 - ↪ check air inlet & air outlet temperature, and external unit temperature
 - ↪ check voltage and frequency
 - ↪ check accu rotor speed
 - ↪ complete QSV90 form
- b) Engine :
 - ↪ check belt tension and adjust if necessary
 - ↪ check visually tightness of fuel, oil, and cooling circuits
 - ↪ check oil level in oil sump, injection pump and add oil if necessary
- c) Battery :
 - ↪ check acid density, state of capacity, distilled water level, and add liquid if necessary
 - ↪ check charger function and adjustments
- d) Panels :
 - ↪ check PLC and HMI Interfaces, for alarms, panel light functions, and connections.

Bearing Service :

- e) Accu rotor bearings greasing
- f) Clean and refill automatic greasing units

Systems Tests :

- g) check auxiliary power feeds and safety function
- h) manual start of engine with checking of starter, generator, cooling circuit, alternator voltage, ventilation circuits, fuel supply and exhaust
- i) "faulty mains" automatic on load test, with oil pressure and temperature control, etc..

2. SERVICE B - ONCE PER YEAR - USUALLY AT EVERY 3RD INSPECTION.

- a) Same controls and works as mentioned in Service A
- b) Additional works
 - ↪ Change Engine Oil in sump and injection pump
 - ↪ Remove dust on panels and system
 - ↪ Tightening of screws, terminal blocks and bus bars
 - ↪ Replacement of oil and fuel filter cartridges
 - ↪ Other engine components according to Engine Mfg requirements

ADDITIONAL BENEFITS OF THE NO BREAK E1:

Regulation of Output Voltage +/-1% w/ input voltages of ±10% - See E1 Voltage Control

Power Factor Correction and Leading Power Factor Capabilities - See E1 PF Correction

Protection against Harmonics - See E1 Harmonics Filtering.

The Ability to Provide Short Circuit Current Clearing - See E1 Short Circuits

The High Reliability of the System and Redundancy - See E1 Reliability