

Power Field Services

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Brazoria County Sheriff Department

Re: Generator Maintenance

Location: 3602 CR 45, Angleton, Angleton Tower

Model: MTU 8V063 GS50

Summary:

- 1) Level 1, Full Maintenance--\$883.06
- 2) Level 2, Inspection—\$440.50ea. (3x per year)
- 3) Load Bank Testing, 2 hour - \$880.00

Annual Total: \$3084.56

Location: 1567 CR 348, Brazoria, Brazoria Tower

Model: MTU 8V063 GS50

Summary:

- 1) Level 1, Full Maintenance--\$1192.36
- 2) Level 2, Inspection—\$607.30ea. (3x per year)
- 3) Load Bank Testing, 2 hour - \$880.00

Annual Total: \$3894.26

Location: 1432 CR 434A, Clute, Clute Tower

Model: MTU 8V063 GS50

Summary:

- 1) Level 1, Full Maintenance--\$1045.01
- 2) Level 2, Inspection—\$554.95ea. (3x per year)
- 3) Load Bank Testing, 2 hour - \$880.00

Annual Total: \$3589.86

Location: 3602 CR 45, Angleton, BCSD Auto Crimes

Model: Generac SD0100

Summary:

- 1) Level 1, Full Maintenance--\$1429.63
- 2) Level 2, Inspection—\$440.50ea. (3x per year)
- 3) Load Bank Testing, 2 hour - \$860.00

Annual Total: \$3611.13

Location: 3602 CR 45, Angleton, BCSD Facilities

Model: MTU DS0010006

Summary:

- 1) Level 1, Full Maintenance--\$1263.65
- 2) Level 2, Inspection—\$440.50ea. (3x per year)
- 3) Load Bank Testing, 2 hour - \$860.00

Annual Total: \$3445.15

Location: 7313 Corporate Dr, Manvel, Manvel Tower

Model: MTU 8V063 GS50

Summary:

- 1) Level 1, Full Maintenance--\$988.19
 - 2) Level 2, Inspection—\$361.75ea. (3x per year)
 - 3) Load Bank Testing, 2 hour - \$880.00
- Annual Total: \$2953.44

Grand Total, Annual Cost: \$20,578.40

Note: Load Bank Testing, if accepted, will take place concurrently with one Inspection.

Quoted prices include normal testing, packaging and instructional literature. Special testing, packaging, additional instructional literature, parts, provisioning lists or prints are not included, and prices will be quoted separately.

BY: 

 Power Field Services
 Scott Havis

**ATTACHMENT A
GENERATOR MAINTENANCE TASKS**

P.M. LEVEL 1 (inspections)

Visual Inspection - Visual inspection of overall condition of unit to identify foreign objects, loose or broken fittings, guards, and components.

Wipe off unit - Clean oil, coolant, fuel and acid deposits. Police generator area.

COOLING SYSTEM

- Radiator/Heat Exchanger - Visual inspection for leaks, damage, and debris.**
- Coolant - Visual inspection for correct level and condition of coolant (rust, oil, and contaminants). Check coolant conditioner concentration and temperature protection. Check filler cap gasket and sealing surface.**
- Hoses and Connections - Visual inspection of all hoses for deterioration. Check tightness of connections.**
- Fan Drive Pulley and Fan - Check for loose or worn pulleys and lube fan drive bearing. Check fan operation and clearance.**
- Fan Belts - Inspect for wear or deterioration. Check tension and adjust as necessary.**
- Jacket Water Heater - Inspect for proper operation. Check thermostat settings for proper coolant temperature.**
- Water Pump - Visual and operational inspection for leaks or unusual noises.**

FUEL SYSTEM

- Fuel Lines and Connections - Inspect for leaks and tightness of connections. Check line brackets.**
- Governor and Controls - Inspect governor oil level. Inspect controls and linkage for proper operation. Add oil as necessary.**

Check primary fuel filters for contamination

AIR INDUCTION AND EXHAUST SYSTEM

Air Filter Service Indicator - Note reading. Inspect for proper operation. Reset indicator.

Air Filter - Inspect. Clean as necessary.

Air Inlet System - Inspect piping and air filter housing for damage, loose connections, and evidence of leaks.

Clean air filter housing if air filter is cleaned or replaced. Check housing seals and gaskets.

Turbocharger - Inspect for oil leakage or exhaust leakage. Check for unusual noises and proper operation.

Exhaust Manifold - Inspect for damage, loose or missing hardware, evidence of exhaust leakage.

Exhaust System - Inspect silencer and piping for damage, corrosion, or leakage. Check rain cap. Check supports for vibration damage and loose connections.

LUBE OIL SYSTEM

Oil Level - Inspect for correct oil level and contamination. Visually inspect unit for leaks.

Oil Pressure - Operational check of gauge for correct pressure.

Crankcase Breather - Inspect for proper operation. Check connections and inspect hose for deterioration. Note excessive blowby.

STARTING SYSTEM

Batteries - Inspect for damage or leakage, clean battery acid neutralizer. Clean and tighten all battery cable connections.

Batteries (Specific Gravity) - Check electrolyte level and specific gravity.

Battery Charger - Inspect for proper operation, loose terminals, and deteriorated wiring.

Starting Motor - Inspect electrical connections and wiring.

Operational check for abnormal engagement and cranking noises.

ENGINE MONITORS AND SAFETY CONTROLS

Safety Controls - Check for: loose connections, and wiring deterioration.

Remote Annunciator and Alarms - Inspect all panel and system alarms.

CONTROL PANEL

Start Controls-Manual/Auto - Operational check for proper operation. Check automatic start.

Voltmeter - Operational check for correct readings. Check voltage level, voltage gain, and voltage drop adjustment.

Ammeter - Operational check for correct readings, if load is available.

Frequency Meter - Operational check for correct readings. Load and no load readings, if possible.

P.M. LEVEL 2 (Includes All Service Level 1 Inspections, As Well As The Following) - Recommended Annually;

LUBE OIL SYSTEM

Oil Filters - Change. Inspect all gaskets and seals.

Lube Oil - Sample and perform lab testing.

Crankcase Breather - Inspect and clean.

FUEL SYSTEM

Replace primary and secondary fuel filters if applicable.

Inspect for algae and water contamination if applicable.

Recommend corrective action (fuel polishing) if needed.

AIR INDUCTION SYSTEM

Air Filters – Replace

Turbocharger - Inspect turbocharger for proper endplay of rotating assembly. Check for oil leakage or unusual noises.

ENGINE MONITORS AND SAFETY CONTROLS

Gauge Accuracy - Check oil pressure, water temperature, and alternator gauges for accuracy

Safety Controls - Inspect for proper operation, loose connections, and wiring deterioration. Check all safety controls for proper operation.

**Remote Annunciator and Alarms - Inspect and test all panel and system alarms for proper operation.
Sending Unit Switches - Check water temperature and oil pressure.**

GENERATOR

Vibration Isolators - Check for proper adjustment and condition.

CONTROL PANEL

Circuit Breakers - Inspect for free movement and tight connections. (generator mounted only)

TRANSFER SWITCH PREVENTIVE MAINTENANCE – Performed During Level 2

INTERIOR WIRING COMPONENTS

Perform visual inspection of all wiring and connections for signs of tracking, overheating, and insulation deterioration

Check and tighten, where necessary, all control circuit wiring terminals.

Check all time delay settings and adjust to the customer's specifications.

Check condition of main and arcing contacts and auxiliary contacts.

Check all common and ground wires. Measure and record resistance to ground readings.

Check for proper transfer operation and sequencing of time control parameters.

Verify proper operation of all phase and voltage sensitive controls.

Perform thermal imaging heat scan on all contacts.

ENCLOSURE

Wipe down.

Clean interior of enclosure and remove accumulated dust and/or dirt.

Check door closure, locking bar, and mechanism for proper operation.

MISCELLANEOUS

Record findings of the inspection. Note corrective action taken.

Report unsafe conditions.

Report recommendations for replacement of major components.