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Generator START-UP Inspection

Technician

WORK ORDER #

CUSTOMER:

Date

Generator Location / Address:

Generator	KW	Make	Model	Serial #	Volts	Amps	Phases	Genset Hours
Engine								
Transfer Switch								
Fuel Filter #		Oil Filter #		Oil Capacity (gal)		Coolant Capacity (gal)		

WORK ORDER #

PRE-START GENERAL INSPECTION

- 1- Inspect for any freight damage (components straight, straight, etc.)
- 2- Verify manuals present
- 3- Check that generator is secured to pad and bolts are tightened
- 4- Inspect all belts for ensure proper alignment and tension
- 5- Check governor rod movement and clearance.
- 6- Verify fluid levels (oil, coolant, battery, governor, etc)
- 7- Visually inspect the vibration damper
- 8- Rain Cap in place and functional
- 9- Verify correct AC and DC wire sizes and connections
- 10- Verify proper sized battery(ies) in place. Connect battery cables
- 11- If gaseous unit, connect gas manometer to inlet side (1/8" pipe plug) of secondary regulator for monitoring
- 12- Check fuel and exhaust plumbing
- 13- Verify adequate air flow and ventilation
- 14- Check block heater & battery charger properly matched with utility voltage
- 15- Verify electrical connections made at battery charger, block heater, etc.
- 16- Verify remote start wires pulled & connected to generator & transfer switch
- 17- Verify communications wires are pulled and properly terminated correctly inside control panel, remote annunciator, and transfer switch
- 18- Remove fuse from generator control panel, connect battery, re-insert fuse
- 19- Verify grounding rod installed
- 20- Close AC circuit breaker to block heater & battery charger
- 21- Verify block heater is operational - Feel heater hose for heat and listen
- 22- Verify battery charger is operations and record:
 DC Voltage DC Amperage
- 23- Verify AC electrical connections tight at circuit breaker and transfer switch
- 24- Inspect louvers and mechanical linkages. Ensure properly wired to engine run relay to ensure power is applied when unit starts
- 25- Check all hoses, clamps, and fittings for leaks or damages
- 26- Check all electrical connections on the generator, wiring, wire ties, clamps, and terminal ends
- 27- Check all electrical plugs ensuring each plug is seated correctly
- 28- Verify the AUTO/OFF/MANUAL switch is in "OFF" position

PREPARATION FOR GENERATOR START

- 29- Disable transfer switch to prohibit transfer
- 30- Bleed fuel system of air (diesel)
- 31- Open generator main line circuit breaker

RUNNING CHECKS

- 32- If gaseous unit: Unplug B+ at the gas solenoid valve. Momentarily apply battery voltage to the solenoid and record the inlet static gas pressure at the secondary regulator with manometer. Reconnect wire at gas solenoid
- 33- Test overcrank circuit. With fuel system disabled, place AUTO/OFF/MANUAL switch in "AUTO" mode. Close the 2-wire start circuit at transfer switch causing unit to complete full crank/rest cycle and latch out on an "OVER-CRANK" condition.
 Number of crank cycles completed
- 34- While manually holding governor linkage, start engine and bring up to speed slowly. Complete the following checks:
 - 34a Fuel pressure running without load inches W.C./PSI
 - 34b DC alternator output: Volts: Amps:
 - 34c Check/Adjust AC output frequency (HZ) to proper no-load setting
 No load HZ:
 - 34d Check/adjust and record AC output voltages
 No load voltages: A-B B-C C-A
 A-N B-N C-N
 - 34e Overspeed set-point (HZ)
 - 34f Engine coolant temperature (hot running)
 - 34g Engine oil pressure (hot running)
- 35- Test ALL automatic shutdowns – low oil pressure, low coolant level, high coolant temperature, and overspeed
- 36- Check for coolant, fuel, oil, and exhaust leaks and open louvers
- 37- Close genertor main line circuit creaker
- 38- Check for proper voltage and phase rotation at transfer switch
- 39- Transfer customer load to generator and record the following:
 - 39a Check/adjust and record AC output voltages
 Full load voltages: A-B B-C C-A
 A-N B-N C-N
 Full load amperage: A B C
 Full load frequency (HZ)
 If gaseous: Record fuel pressure (Inches WC/PSI)
- 40- Customer briefed & trained on safe operation of system

Follow-Up Req'd?
 Yes No

Quote Req'd?
 Yes No

Additional Work Performed and/or Follow-Up Required Before Start-Up Completion: (please refer to above task numbers when commenting)

CUSTOMER Name Signature Date
 TECHNICIAN Name Signature Date