

Information Sheet # 49
Safety Guidelines for Rental Generator Set Systems

**Your Reliable Guide for
Generator Maintenance**

1.0 Introduction:

Any business renting generator sets to the public, should be extremely conscious of the many potential safety issues and their responsibilities.

This information sheet discusses safety guidelines when renting and operating rental generator set systems.

2.0 Overview of Rental Safety Guidelines:

It is very important that the customer is given verbal information at the signing of the rental contract and the operator read any instructions BEFORE the unit is put into service. We suggest that a printed 'hard copy' document be supplied as part of the contract and a signed receipt of this be kept with the customer's paperwork. The rental generator also should carry a suitable 'safety warning' decal, placed in a prominent position. Any person responsible and/or involved in the rental generator operation MUST be familiar with the proper safety precautions and operational techniques, before using the set. Any nameplate, safety or instructional decal must be replaced by rental company, should they become difficult to read or damaged.

3.0 General:

Failure to follow instructions in the manual provided may lead to serious injury, even death! The equipment is to be operated by trained and qualified personnel only! The manufacturer assumes no responsibility for any accident caused by equipment modification by the customer. Any unauthorized equipment modification will void all warranties.

4.0 Mechanical Safety:

Note the following:

- Equipment should not be operated by persons under the age of 18
- Always check the machine for any loose wires, leads, threads or nuts and bolts, before starting
- The equipment is for industrial use only
- Never operate the equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices warranted by the job
- Never operate the equipment when feeling unwell due to fatigue, illness, or while taking medications, or under the influence of drugs or alcohol
- Never use any accessories or attachments which are not recommended by the renter, which may result in damage and/or injury to the operator
- Never operate the equipment in an explosive atmosphere or near combustible materials. An explosion or fire could cause serious bodily harm or even death
- Never touch the hot exhaust manifold, muffler, exhaust tailpipe or cylinder. Allow these parts to cool sufficiently before servicing the engine or generator
- Never run the equipment without an air filter as serious engine damage may occur
- Always allow the equipment to adequately cool down before performing any service or maintenance functions. Contact with hot components can result in serious burns
- DO NOT place hands or fingers inside the generator engine compartment while the unit is running
- DO NOT leave the generator unattended, while the unit is in manual mode

5.0 Cooling:

The equipment requires an adequate free flow of cooling air. Never operate the generator in any enclosed or narrow area where free air flow is restricted. Any such restriction of free air will cause serious damage to the generator and/or engine and may result in injury to people. The generator gives off deadly carbon monoxide gas in the exhaust and should be placed so inhalation is avoided.

6.0 Storage:

Always store the generator and accessories properly when not being used in a clean, dry location away from the reach of children.

7.0 Towing and transportation safety:

For trailer-mounted rental generators, always ensure the renter complies with all normal safety rules. The trailer should comply with any and all state and local safety regulations. Check that the towing vehicle's hitch and coupling are rated equal or greater than the trailer's gross vehicle weight rating. Check that the trailer safety chain is securely attached to the truck and the trailer electrical brake lights and directional signals are connected and functioning before leaving the rental yard. Raise and lock the stabilization jacks.

8.0 Grounding:

It is important to provide a good earth ground to guard against electrical shock and possible equipment damage. The National Electrical Code (NEC) Article 250 (Grounding) provides guidelines for the proper grounding and specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical. We suggest the following recommendations also be followed: (Continued over)

To fulfill our commitment to be the leading supplier in the power generation industry, the Loftin Equipment and Bay City Electric Works teams ensures they are always up-to-date with the current power industry standards as well as industry trends. As a service, our **Information Sheets** are circulated on a regular basis to existing and potential power customers to maintain their awareness of changes and developments in standards, codes and technology within the power industry.

The installation information provided in this information sheet is informational in nature only and should not be considered the advice of a properly licensed and qualified electrician or used in place of a detailed review of the applicable National Electric Codes, NFPA 99/110 and local codes. Specific questions about how this information may affect any particular situation should be addressed to a licensed and qualified engineer and/or electrician.

- ALWAYS make sure the generator is properly grounded
- ALWAYS make certain that the electrical circuits are properly grounded per NEC and local codes before operating the generator. Severe injury or death by electrocution can result from operating an ungrounded generator
- ALWAYS be sure to use the ground terminal (green wire) when connecting a load to the U, V and W terminal lugs
- NEVER use gas piping as an electrical ground

9.0 Electrical Safety:

To avoid the possibility of electrocution, electrical shock or burns, note the following:

- ALWAYS have a qualified electrician perform the generator wiring installation
- ALWAYS make certain the generator installation is in accordance with the NEC and local codes before operating the rental generator
- ALWAYS make certain the proper extension cord has been selected for the job
- ALWAYS stop the machine and place the circuit breaker in the OFF position, when contact with the output terminals is required
- NEVER use a defective or frayed power cable. Check the cable for cuts in the insulation
- NEVER use an extension cord that is frayed or damaged, where the insulation has been cut
- NEVER stand in water while the AC power from the generator is being transferred to a load
- NEVER use damaged or worn cables to connect the equipment to the generator. Make sure that all power connecting cables are securely connected to the generator's output terminals and adequately tightened. Insufficient tightening may cause damage to the generator and can produce electrical shocks
- NEVER touch a live power cord or the output terminals with wet hands, while set is running. This is extremely dangerous!

To avoid any back-feed to the utility system when connecting generator to a building load or backing up another power source, do not connect to any electrical system except through an approved device or after the building's main switch is opened. Always have a licensed electrician perform the installation.

10.0 Maintenance:

Turn off all circuit breakers on the generator before performing any generator maintenance. Always disconnect the negative battery terminal cable before performing maintenance. Always service the air filter frequently, especially when operating in dirty conditions. Never attempt to carry out service while the generator is running.

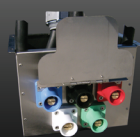
NEVER remove the following items while the generator is running or until the unit has had time to sufficiently cool: radiator cap, coolant drain plug, or engine oil drain plug.

Typical Rental Generator Set Package

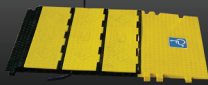
Refer to this information sheet for safe operation of equipment shown



TYPICAL RENTAL ACCESSORIES



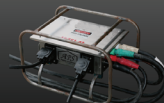
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Cable Protector



Distribution Panel



Spider Box



Receptacles



Transformer



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