

SAFE WORK PROCEDURES GENERATOR (GENSET)



SPECIAL INSTRUCTIONS:

1. This procedure is intended for fixed, transportable, or for truck or trailer mounted generators used for emergency power supply for buildings, factories or facilities.
2. Operation of generators and gensets must be carried out by or under the supervision of a competent person.
3. Connection of generator to mains supply system must be carried out by a licensed electrician.

Sequence	Identified hazards	Key processes to be followed	Precautions / PPE required
1. Pre-start checks	Risk of fire Damage to motor Risk of electric shock	Exercise care when refuelling to not spill fuel or overfill fuel tank. If spillage occurs, clean up all spilt fuel immediately before operation. Check oil level; add oil if level is below the bottom mark on the dipstick. Use test switch to check for correct operation of safety switch or RCD. Ensure that generator is set up on a firm, level surface, preferably close to connection point to mains supply system. Ensure that cables and connectors to be used are compatible with the output of the generator. Ensure that generator output is sufficient to operate system effectively.	No smoking or ignition sources. Wear eye and hand protection when handling fuel. Inspect leads before use. Do not use leads if out of test. Check voltage and current type. Check wattage ratings.
2. Operation	Unauthorised access Unsafe atmosphere, asphyxiation Noise Risk of electric shock Risk of fire	Locate generator in a secured area or provide suitable barricading to prevent unauthorised access to generator or genset. Do not operate internal combustion motors in a confined or poorly ventilated area. Keep doors and panels closed when generator is operating. Avoid running cables through water, and protect from mechanical damage. Ensure that cables and connectors are clean and undamaged, and secure. Do not refuel generator while motor is running. Allow unit to cool down before refuelling.	Prevent unauthorised access. Provide suitable enclosure. Use generator outdoors or in well-ventilated areas only. Wear hearing protection . Run cables above ground. No smoking or ignition sources.
3. Maintenance	Automatic starting Electric shock	Ensure that automatic start function is disabled, and that any stand-by mode is disabled before commencing work on generator. Unplug, disable or disconnect any connections to supply system before commencing work.	Do not reconnect to system or switch to operating position until all work is completed.

PRECAUTIONS:

The following precautions are to be observed in areas where these procedures are carried out.

