



JOB AID HAZARD AWARENESS INFO

DIESEL GENERATOR

A diesel generator is the combination of a diesel engine with an electric generator to generate electrical energy.

Diesel generating sets are used in places without connection to the power grid, as emergency power-supply if the grid fails, or to generate supplemental power.

Hazards Involved/Arise

- Exhaust fumes
- Electrical hazards (shock, arc flash)
- Fire and explosion hazards
- Chemical hazard

People Affected

- Service/Maintenance personnel
- Employees
- General public



Existing Controls

- Exhaust systems are properly installed
- Adequate ventilation
- Emissions directed away from inhabited zones
- Lockout/Tagout procedures in place
- Generator frame and conducting parts have proper grounding/earthing wiring
- Electrical connections are insulated and covered
- Workers are trained about working safely and are informed about the hazards of working around a source of electricity
- A fire extinguisher is readily available
- Personal Protective Equipment (PPE) such as arc-rated clothing and tools, gloves and masks and any other PPE required according to the (Material)/Safety Data Sheets
- Emergency preparedness plan and spill procedures are in place to reduce the possibility of an explosion due to fuel oil spills or leakage
- Installation, maintenance and repair are done according to the manufacturer's instructions and recommendations (e.g., wiring, cables and cords are of the recommended capacity)
- Signage to warn the public that there is operating equipment

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Content developed by WSPS Advisory Committees

375-BBT-013-IGDO | REVISED JUNE 2017

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