

Generator set pre-start-up checklist

Open & enclosed generator sets

This checklist should be used to validate the completion of generator set pre-commissioning. A check-list should be completed for each generator set of a multiple installation.

completed for each generator set of a multiple installation.				
Project Details Project Name				
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Customer (End User)				
Address				
Customer representative				
Tel. No				
Email				
Generator set details	_			
Generator set model				
Generator set serial numberSet no				
Control type				
Control serial number				
System control type (if applicable)				
Generator set environment and services				
Installation work & checklist complete				
Installation work & checklist complete Surroundings clean & clear from obstruction				
Surroundings clean & clear from obstruction				
Surroundings clean & clear from obstruction Services to generator set complete				
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Cooling System

Coolant type	
Mix ratioor factory installed	
Set mounted radiator	
Radiator clean, free from obstruction	
Overflow clear and routed to avoid pollution	
Radiator filled with correct coolant & cap replaced	
Radiator, engine & pipework checked for leaks	
Belts checked for alignment, tension and damage	
Guards in place & secure	
Energise coolant heater supplies & check function	
Remote mounted radiator systems	
Radiator clean, free from obstruction	
Overflow clear and routed to avoid pollution	
Header tank filled with coolant & cap replaced	
System & auxiliary tank (if fitted) filled	
Radiator, engine & pipework checked for leaks	
Air bled from system	
Energise coolant heater supplies	
Auxiliary supply to fans, pumps correctly installed	
Auxiliary supplies phase rotation / voltage check	
Heat exchanger & cooling tower systems	
Header tank filled with coolant & cap replaced	
Auxiliary tank (if fitted) commissioned	
System, engine & pipework checked for leaks	
Air bled from system	
Energise coolant heater supplies	
Secondary cooling system is complete & filled	
Secondary cooling systems pumps commissioned	
Cooling tower make up supply commissioned	
Auxiliary supply to fans, pumps correctly installed	
Auxiliary supply to fans etc., phase / voltage check	
Record coolant concentration used	

Fuel System

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Bulk storage facility Bulk storage tank filled

Bulk storage tank filled
Isolating valves correctly positioned
Tank contents gauge and alarm contacts checked
Transfer pump & controls tested

Electrical bonding complete

Pipeline/tank heating system tested & commissioned

Fill point installed & alarm tested & commissioned

Fill point installed & alarm tested & commissioned

Bulk system checked for leaks

Vent and overflow pipes open



Day tank	Louver mechanisms checked and supply energised	
Isolating and solenoid valves checked for operation	Commission forced ventilation system if applicable	
Engine fuel return open		
Day tank filled	Electrical system	
Air purged from system	Control systems	
Tank contents gauge and alarm contacts checked	Visual check completed	
Spillage containment alarms checked	Energise set control and check functionality	
Transfer pump functions checked	Energise system controls and check functionality	
Fire valves & contacts installed & wired	Check software versions and upload as required	
	 Select set parameters on set/system control	
Gas fuel System	Check remote control signals to set control	
Visual check completed & test certificates present	Check set control signals to remote control	
Gas present at shut off valves	Check signals to system control and switchgear	
	 Check emergency stop controls	
Fire alarm / suppression system	Enter / verify engine & alternator protection settings	
Fire alarm / suppression system commissioned	Set / Switchgear / Changeover / Transfer	
Fire wire & solenoid quick release commissioned	Visual check completed	
Suppression system lock off commissioned	Check cables installed correctly & torque marked	
	 Verify cable flexibility at generator set	
Lubrication system	Energise auxiliary supplies and check functionality	
Engine oil pan filled to correct level	Enter switchgear protection settings and record	
Level alarms checked	Utility sensing commissioned	
Pre-lubrication system commissioned	Electrical general	
Oil make up system filled & commissioned	Test certificates available for all cables	П
	 Check auxiliary supply protection settings	
Starting system	Check auxiliary electrical supplies voltage & phase	
Battery starting	Commission auxiliary supplies	
Batteries filled, installed and connected	Check utility supply protection settings	
Battery charger commissioned	Check utility supply for voltage & phase	
Boost / float controls & instruments checked	Commission utility supplies	
Compressed air / hydraulic starting	Small power & lighting circuits test & commissioned	
Isolating valves correctly positioned & labelled		
Pressure regulator & LP safety valve checked	Comments on any item that may affect commissioning	ng
Compressor commissioned		
HP & LP air / hydraulic pressures checked		
Condensate drained		
Exhaust system		
Check security of bellows, pipework & muffler		
Check all flanges, joints & welds		
Check stack/tail pipe and rain cap are clear		
Drain water from system		
Pre-lubricate turbo charger if required	Checklist completed by	
	 Date	
Ventilation & attenuation	 Print Name	
Check louvers are clear and free to operate	Company	
Shock loavord are deal and nee to operate	Note: Completion of this checklist does not relieve the installer of contract oblig	gations.

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