

Generator set start-up checklist

Open & enclosed generator sets

This checklist should be used to validate the completion of

generator set start-up procedure. A check-list should be completed for each generator set of a multiple installation. **Project Details** Project Name Customer (End User)..... Address..... Customer representative..... Tel. No Email..... Generator set details Generator set model..... Generator set serial number.....Set no...... Control type..... Control serial number..... System control type (if applicable)..... Generator set environment and services Precommissioning work & checklist complete Surroundings clean & clear from obstruction Lighting / heating, etc., systems operational Observations..... Safety Checks Ensure starting is inhibited until start-up is required Set clean and fully assembled No loose materials near set Air ducts clear and clean Access & egress routes unobstructed & labelled Control & maintenance positions unobstructed Room secure - no unauthorised access

Personnel warned of start-up process	•••
Cooling System	
Set mounted radiator	
Radiator, engine & pipework checked for leaks	
Belts & guards checked for security / slipping	

Coolant neater operational	• • •
Leak check	• • •
DCA dosing cartridges fitted & valves open	
Remote mounted radiator systems	
Radiator, engine & pipework checked for leaks	• • •
Coolant heater operational	
Fans, pumps and controls checked	
Leak check	
DCA dosing cartridges fitted & valves open	
Heat exchanger & cooling tower systems	
System, engine & pipework checked for leaks	
Coolant heater operational	
Secondary cooling system checked	
Fans, pumps and controls checked	• • •
DCA dosing cartridges fitted & valves open	• • •
Legionnella dosing checked where applicable	
Record dosing chemical & concentration	

DOM dosting cartinages inted a varves open	•••
Legionnella dosing checked where applicable	•••
Record dosing chemical & concentration	
Diesel Fuel System	
Bulk storage facility	
Isolating valves correctly positioned	•••
Transfer pump & controls operational	•••
Pipeline / tank heating system operational	
Fill point alarm operational	
Leaks check	
Storage facility secure	
Day tank	
Isolating and solenoid valves checked	
Tank filled	
Spillage containment & alarms operational	
Transfer pump operational	
Leak check	
Fire valves & release tested and operational	

Gas Fuel System	
Isolating valves correctly positioned	
Regulator set to correct pressure	
Gas leak detection equipment operational	
Double shut-off device operational	
Leak test complete	
Purging complete	•••

Fire alarm / suppression system	
Fire alarm / suppression system operational	
Suppression system lock-off operational	
Operator instructed in fire system operation	



Lubrication system		Generator set voltage & frequency correct to order	•••
Engine oil pan filled to correct level		Control system calibrations checked	•••
Oil make up system operational	•••	Phase rotation checked	• • •
		Paralleling sets phase coincidence check	• • •
Starting system		Generator set switchgear manual operation correct	• • •
Battery starting		Local stop / emergency stop control checked	
Batteries installed, filled and connected		Remote start / stop / emergency stop checked	
Battery charger commissioned			
Compressed air / hydraulic starting		Generator set load test	
Isolating valves correctly positioned		Note: Load test is carried out on customer's si	
Compressor operational		unless agreed in writing prior to start-up. Artificial lobank test will be performed using resistive load unl	
HP & LP air / hydraulic pressures checked		otherwise specified.	uiiio
Condensate drained		Load test completed using customer's load	
		Record load achieved	kW
Exhaust system		Load bank test (if applicable)	
Check security of pipework & muffler		Check load bank voltage & power capability	
Check cowl and/or rain cap are operational	•••	Check cables installed correctly & tightened	
Check water drain pipework and valves correct	•••	Energise auxiliary supplies and check functionality	
Leak check		Load test completed	
Check for exhaust gas recirculation		Result sheet completed	
Check for Children gas recinculation	•••	Record load achieved	kW
Ventilation & attenuation		Record power factor	
Check louvers are clear and operational			
Forced ventilation system operational if applicable	•••	System start-up completion	
Check for hot air recirculation	•••	Generator set operational	
Check for not all rediction	•••	Changeover / transfer switch operational	• • •
Electrical system		Paralleling switchgear operational	
Control systems		Automatic operations checked	
Auxiliary supplies energised		Master control operational	
Generator set local controls checked	•••	All safety shutdowns and warnings operational	
Generator set remote controls checked	•••	Electrical HV/MV/LV rules and procedures in place	
Generator set system controls checked	•••	Comments on any item that may affect acceptance:	
Customer remote indication / controls checked	•••		
	•••		
Changeover switchgear / transfer switch			
Auxiliary supplies energised	•••		
Utility supply energised	•••		
Voltage / phase rotation checked	•••		
Indications correct	•••		
All covers in position	•••		
Paralleling switchgear		Checklist completed by	
Auxiliary supplies energised	•••	Date	
Indications correct	•••	Print Name	
All covers in position	• • •		
		Company	

Note: Completion of this checklist does not relieve the installer of contract obligations. By signing this document you agree to the terms and conditions of our warranty. Failure to sign and send this document to the manufacture does not relieve the installer of the terms and conditions of the warranty.

Manual start-up, idle & full speed checks complete