
	<p align="center"><b>Work Instruction for Operating DG Set's</b></p> <p align="center"><b>Do's</b></p>	<p><b>DOC NO.</b> <b>OMC/PRODN/OC/WI/06</b> <b>ISSUE NO. 01</b> <b>REV. NO. 00</b> <b>DATE. 10/01/2018</b></p>
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1. Do keep the engine clear and in adjustment.
2. Do ensure proper cleaning of air cleaner.
3. Do connect the load only when generator voltage regulation is normal.
4. Do clean area of any lubricating oil spilled while priming or filling crank case.
5. Check the tightness of clamps and hoses between air cleaner housing and turbocharger.
6. Inspect the air cleaner and rubber hoses periodically and when it is found hard replace them.
7. Dust collector rubber cap to be cleaned and it should be fitted facing downwards.
8. Add coolant in the radiator when engine is cold.
9. Stop the leakage if any, and operate the engine.
10. Rotate the genset key to start position & press the start button till the engine cranks. The oil pressure gauge should indicate adequate pressure as per specification. Release the key from start to run position.
11. Run the gen set at 1000 rpm for 2 to 3 min. Raise engine speed to 1500 rpm.
12. Maintain the following parameters during operation as recommended by engine manufacturer.
  - a) Oil pressure
  - b) Frequency 50 Hz  $\pm$  3%
  - c) Voltage 415V  $\pm$  5%
  - d) Coolant & oil temperature

If the parameters are within limit, switch on the MCB & load the generator. Record data every hour in log book.

### 13. Stopping Procedure

- a) Switch OFF MCB.
- b) Decrease genset RPM to 1000.
- c) Run at 1000 RPM for 3 to 5 mins.
- d) Turn the key to OFF position.

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1. Do not start the engine without checking the engine fuel and level of lubricating oil
2. Do not start the engine without opening fuel caps.
3. Do not smoke in the generator room and also do not keep inflammable goods in generator room.
4. Do not operate the engine with broken and mutilated seal rings.
5. Do not operate the engine with hard hoses as it will develop cracks and dust will enter and will ruin the piston rings and liners.
6. Do not operate the engine with clogged fuel filter otherwise engine will not take load.
7. Do not operate the engine with less coolant in the radiator.
8. Do not operate the engine with leakage of lubricating system.
9. Don't take to run position if oil pressure is not correct.
10. Don't take directly to full engine speed.
11. Don't load the generator if parameters are not maintained.
12. Don't stop engine with load ON.
13. Don't take rest or sleep in the DG Panel room.