

TESTING AND MONITORING RECOMMENDATIONS¹
FOR EXISTING RECIPROCATING INTERNAL COMBUSTION ENGINES (Except Emergency Generators)

Landfill Gas (LFG) / Digester Gas (DG)

Size (Single engine)	Combustion Process Adjustment	Periodic Monitoring Procedure (PMP ^{2,6})	Stack Test ^{4,5}
37 kW ≤ Power Output < 148 kW (50 HP ≤ Power Output < 200 HP)	If used for generating electricity: According to the manufacturer's recommended procedures and maintenance schedule.	CO and NOx, Semiannually ³	None
148 kW ≤ Power Output < 370 kW (200HP ≤ Power Output < 500 HP)	If used for generating electricity: According to the manufacturer's recommended procedures and maintenance schedule.	CO and NOx, Quarterly ³	None
370 kW ≤ Power Output < 1480 kW (500HP ≤ Power Output < 2000 HP)	According to the manufacturer's recommended procedures and maintenance schedule.	CO and NOx, Monthly ³	CO and NOx, Every 5 years.
Power Output ≥ 1480 kW (Power Output ≥ 2000 HP)	According to the manufacturer's recommended procedures and maintenance schedule.	CO and NOx, Monthly ³	CO, NOx, VOC, and SO ₂ , Every 5 years.

¹. Modifications / Renewals: This chart shall be used to update the testing and the monitoring requirements of equipment, for which a modification, that is not a Title I modification, has been submitted for approval and to update the testing and the monitoring requirements at the time of operating permit renewal.

². PMP results must be calculated in lb/hr.

³. A facility may request to reduce PMP frequency; see RICE PMP Frequency Reduction Guidance.

⁴. A Continuous Emission Monitor (CEM) can replace stack testing if the CEM monitors and records in equivalent units (e.g. A stack testing requirement for VOC in lb/hr may only be replaced by a CEM recording VOC in lb/hr) and the Relative Accuracy Test Audit (RATA) data meets CO and NOx limits in lb/hr and ppmvd at 15% Oxygen for two consecutive years. A CEM may replace subsequent stack testing requirements, but cannot nullify the need for the initial stack test, which establishes the emission rates to be monitored by a CEM.

⁵. The first stack test must be performed at the same time as a PMP for CO and NOx.

⁶. For an engine with a CEM installed, the CEM must be used instead of the PMP for the parameters it is currently monitoring. For parameters not monitored by CEMS, the PMP shall be followed.