

Proposed 20.2.50 NMAC: Oil and Gas Sector – Ozone Precursor Pollutants
The GCA's Proposed Amendments to 20.2.50.113.B(2) and 20.2.50.113.B(3) NMAC

The GCA's Proposed Amendments to 20.2.50.113.B(2), Table 1, NMAC:

20.2.50.113 ENGINES AND TURBINES

B. Emission standards:

(2) The owner or operator of a portable or stationary natural gas-fired spark-ignition engine shall complete an inventory of all existing engines by January 1, 2023, and shall prepare a schedule to ensure that each existing engine does not exceed the emission standards in table 1 of Paragraph (2) of Subsection B of 20.2.50.113 NMAC as follows:

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Table 1 - EMISSION STANDARDS FOR NATURAL GAS-FIRED SPARK-IGNITION ENGINES MANUFACTURED OR CONSTRUCTED, RECONSTRUCTED, ~~OR INSTALLED~~ BEFORE THE EFFECTIVE DATE OF 20.2.50 NMAC.

Engine Type	Rated bhp	NO _x	CO	NMNEHC (as propane)
Lean-burn	> 1,000	0.50 <u>2.0</u> g/bhp-hr	47 ppmvd @ 15% O ₂ or 93% reduction	0.70 g/bhp-hr
Rich-burn	> 1,000	0.50 g/bhp-hr	0.60 g/bhp-hr	0.70 g/bhp-hr

The GCA's Proposed Amendments to 20.2.50.113.B(3), Table 2, NMAC:

20.2.50.113 ENGINES AND TURBINES

B. Emission standards:

(3) The owner or operator of a new natural gas-fired spark ignition engine shall ensure the engine does not exceed the emission standards in table 2 of Paragraph (3) of Subsection B of 20.2.50.113 NMAC upon startup.

Table 2 - EMISSION STANDARDS FOR NATURAL GAS-FIRED SPARK-IGNITION ENGINES MANUFACTURED OR CONSTRUCTED, RECONSTRUCTED, ~~OR INSTALLED~~ AFTER THE EFFECTIVE DATE OF 20.2.50 NMAC.

Engine Type	Rated bhp	NO _x	CO	NMNEHC (as propane)
Lean-burn	>500 - 1000 <u>1,875</u>	0.50 g/bhp-hr	0.60 g/bhp-hr	0.70 g/bhp-hr

Lean-burn	$\geq$ 1000 1,875	0.30 g/bhp-hr uncontrolled or 0.05 g/bhp-hr with control	0.60 g/bhp-hr	0.70 g/bhp-hr
Rich-burn	> 500	0.50 g/bhp-hr	0.60 g/bhp-hr	0.70 g/bhp-hr

NOTE: The suggestion to use 1,875 rated bhp as the size cutoff to determine the applicable NOx emission standards for lean-burn engines is contingent on the applicability of the Table 2 engine emission standards being changed to use the date of manufacture or reconstruction of the engine (in place of the date of construction, reconstruction, or installation). If the applicability of the Table 2 engine emission standards is based on the date of construction, reconstruction, or installation, Table 2 should be changed to use 2,500 as the rated bhp as the size cutoff to determine the applicable NOx emission standards for lean-burn engines.