

Pt. 1054, App. II

40 CFR Ch. I (7–1–10 Edition)

specified in 40 CFR 90.103 and summarized in the following tables:

TABLE 3 TO APPENDIX I—PHASE 1 EMISSION STANDARDS FOR NONHANDHELD ENGINES (g/kW-hr)^a

Engine displacement class	HC+NO _x	CO
Class I	16.1	519
Class II	13.4	519

^aPhase 1 standards are based on testing with new engines only.

TABLE 4 TO APPENDIX I—PHASE 2 EMISSION STANDARDS FOR NONHANDHELD ENGINES (g/kW-hr)

Engine displacement class	HC+NO _x	NMHC+NO _x	CO
Class I-A	50		610
Class I-B	40	37	610
Class I	16.1	14.8	610
Class II ^a	12.1	11.3	610

^aThe Class II standards shown are the fully phased-in standards. See 40 CFR 90.103 for standards that applied during the phase-in period.

APPENDIX II TO PART 1054—DUTY CYCLES FOR LABORATORY TESTING

(a) Test handheld engines with the following steady-state duty cycle:

G3 mode No.	Engine speed ^a	Torque (per-cent) ^b	Weighting factors
1	Rated speed	100	0.85
2	Warm idle	0	0.15

^aTest engines at the specified speeds as described in § 1054.505.

^bTest engines at 100 percent torque by setting operator demand to maximum. Control torque during idle at its warm idle speed as described in 40 CFR 1065.510.

(b) Test nonhandheld engines with one of the following steady-state duty cycles:

(1) The following duty cycle applies for discrete-mode testing:

G2 mode No. ^a	Torque (per-cent) ^b	Weighting factors
1	100	0.09
2	75	0.2
3	50	0.29
4	25	0.3
5	10	0.07
6	0	0.05

^aControl engine speed as described in § 1054.505. Control engine speed for Mode 6 as described in § 1054.505(c) for idle operation.

^bThe percent torque is relative to the value established for full-load torque, as described in § 1054.505.

(2) The following duty cycle applies for ramped-modal testing:

RMC mode ^a	Time in mode (sec-onds)	Torque (per-cent) ^{b, c}
1a Steady-state	41	0
1b Transition	20	*
2a Steady-state	135	100
2b Transition	20	*
3a Steady-state	112	10
3b Transition	20	*
4a Steady-state	337	75
4b Transition	20	*
5a Steady-state	518	25
5b Transition	20	*
6a Steady-state	494	50
6b Transition	20	*
7 Steady-state	43	0

*Linear transition.

^aControl engine speed as described in § 1054.505. Control engine speed for Mode 6 as described in § 1054.505(c) for idle operation.

^bAdvance from one mode to the next within a 20-second transition phase. During the transition phase, command a linear progression from the torque setting of the current mode to the torque setting of the next mode.

^cThe percent torque is relative to the value established for full-load torque, as described in § 1054.505.

PART 1060—CONTROL OF EVAPORATIVE EMISSIONS FROM NEW AND IN-USE NONROAD AND STATIONARY EQUIPMENT

Subpart A—Overview and Applicability

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1060.1 Which products are subject to this part's requirements?

1060.5 Do the requirements of this part apply to me?

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1060.15 Do any other CFR parts apply to me?

1060.30 Submission of information.

Subpart B—Emission Standards and Related Requirements

1060.101 What evaporative emission requirements apply under this part?

1060.102 What permeation emission control requirements apply for fuel lines?

1060.103 What permeation emission control requirements apply for fuel tanks?

1060.104 What running loss emission control requirements apply?

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1060.120 What emission-related warranty requirements apply?

1060.125 What maintenance instructions must I give to buyers?

1060.130 What installation instructions must I give to equipment manufacturers?

1060.135 How must I label and identify the engines and equipment I produce?

1060.137 How must I label and identify the fuel-system components I produce?