

Chapter NR 485

**CONTROL OF EMISSIONS FROM MOTOR VEHICLES,  
INTERNAL COMBUSTION ENGINES AND MOBILE  
SOURCES; TAMPERING PROHIBITION**

NR 485.01	Applicability; purpose		tion engines, and mobile
NR 485.02	Definitions		sources
NR 485.03	General limitation	NR 485.06	Tampering with air pollution
NR 485.04	Motor vehicle emission limita- tions; exemptions		control equipment
NR 485.05	Visible emission limits for mo- tor vehicles, internal combus-		

**NR 485.01 Applicability; purpose.** (1) **APPLICABILITY.** This chapter applies to all motor vehicles, internal combustion engines and mobile air contaminant sources and to all owners or operators of a motor vehicle, internal combustion engine or mobile air contaminant source.

(2) **PURPOSE.** This chapter is adopted under ss. 144.31 and 144.42, Stats., to establish emission limitations for motor vehicles, internal combustion engines and mobile air contaminant sources and to prohibit any person from tampering with the air pollution control equipment of a motor vehicle in order to protect air quality.

**History:** Cr. Register, September, 1986, No. 369, eff. 10-1-86.

**NR 485.02 Definitions.** The definitions contained in ch. NR 400 apply to the terms used in this chapter.

**History:** Cr. Register, September, 1986, No. 369, eff. 10-1-86.

**NR 485.03 General limitations.** No person shall cause, suffer, allow, or permit emissions of particulate matter, sulfur oxides, hydrocarbons, carbon monoxide, nitrogen oxides, or odors from a motor vehicle, internal combustion engine, or mobile source which substantially contribute to the exceeding of an air standard or create air pollution.

**History:** Renum. from NR 154.17 (1), Register, September, 1986, No. 369, eff. 10-1-86.

**NR 485.04 Motor vehicle emission limitations; exemptions.** (1) Any motor vehicle which is subject to inspection under s. 110.20 (6), Stats., may not emit carbon monoxide (CO) or hydrocarbons (HC) from the exhaust system in concentrations greater than those set forth in Table 1 when measured in an inspection conducted under ch. Trans 131.

Table 1

MODEL YEAR GROUPS	MAXIMUM EMISSION CONCENTRATION	
	HC (parts per million of exhaust)	CO (as a percent of exhaust)
Light Duty Vehicles		
1970-1971	800	8.0
1972-1974	550	7.0
1975-1977	450	5.5
1978	350	4.0
1979	275	3.0
1980	230	2.0
1981-1989	220	1.2
Light Duty Trucks with gross vehicle weight of 6,000 pounds or less		
1970-1971	800	8.0
1972-1974	700	7.0
1975-1977	500	6.0
1978	450	5.0
1979	300	3.0
1980	275	2.5
1981-1984	250	2.0
1985-1989	220	1.2
Light Duty Trucks with gross vehicle weight of 6,001 to 8,000 pounds		
1970-1971	800	8.0
1972-1974	700	7.0
1975-1977	550	6.5
1978	450	5.5
1979	300	3.0
1980	275	2.5
1981-1984	250	2.0
1985-1989	220	1.2

(2) In addition to the vehicles specified in s. 144.42 (5), Stats., the following motor vehicles are exempt from the emission limitations of sub. (1).

- (a) A motor carrier used "for hire" as defined in s. 194.01 (15), Stats.
- (b) A truck tractor as defined in s. 340.01 (73), Stats.
- (c) A motor home as defined in s. 340.01 (33m), Stats.
- (d) A motor vehicle registered under s. 341.26 (2) (b), (d), (dm), (e), (f), (g), (h), (i), (j), (k) or (m), (2r) or (4), Stats.

History: Renum. from NR 154.17 (3) and am. Register, September, 1986, No. 369, eff. 11-1-86.

**NR 485.05 Visible emission limits for motor vehicles, internal combustion engines, and mobile sources.** No person shall cause, suffer, allow, or permit visible emissions in amounts greater than the following limitations, except when uncombined water is the cause for violation.

Register, September, 1986, No. 369

(1) Gasoline-powered internal combustion engines of 25 HP or more, or gasoline-powered motor vehicles: no visible emissions for longer than 5 consecutive seconds.

(2) Diesel-powered motor vehicles of model year 1970 or later: emissions of shade or density greater than number 1 on the Ringelmann chart or 20% opacity for longer than 10 consecutive seconds.

(3) Diesel-powered motor vehicles of model year 1969 or earlier: emissions of shade or density greater than number 2 on the Ringelmann chart or 40% opacity for longer than 10 consecutive seconds.

(4) Ships, locomotives, or semistationary diesel engines: emissions of shade or density greater than number 2 on the Ringelmann chart or 40% opacity for longer than an aggregate time of 5 minutes in any 30-minute period. At no time shall emissions exceed a shade or density greater than number 4 on the Ringelmann chart or 80% opacity.

History: Renum. from NR 154.17 (4), Register, September, 1986, No. 369, eff. 10-1-86.

**NR 485.06 Tampering with air pollution control equipment.** No person may dismantle, remove, or cause to be inoperative any air pollution control device or system which has been installed on a motor vehicle unless the person replaces the device or system with an identical or comparable tested replacement device or system. Such devices or systems include but are not limited to:

(1) Positive crankcase ventilation system.

(2) Exhaust emission control devices.

(3) Evaporative fuel loss control systems.

(4) Any control device operating on principles such as thermal decomposition, catalytic oxidation or reduction, absorption, or adsorption.

History: Renum. from NR 154.17 (2), Register, September, 1986, No. 369, eff. 10-1-86.