

**George E. Meyer
Secretary**

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

**101 South Webster Street
Box 7921
Madison, Wisconsin 53707
TELEPHONE 608-266-2621
TELEFAX 608-267-3579
TDD 608-267-6897**

STATE OF WISCONSIN)
DEPARTMENT OF NATURAL RESOURCES)
ss)

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, George E. Meyer, Secretary of the Department of Natural Resources and custodian of the official records of said Department, do hereby certify that the annexed copy of Natural Resources Board Order No. AM-7-95 was duly approved and adopted by this Department on August 18, 1995. I further certify that said copy has been compared by me with the original on file in this Department and that the same is a true copy thereof, and of the whole of such original.

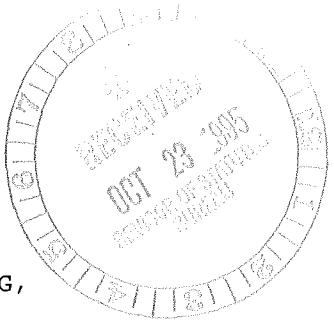


IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the official seal of the Department at the Natural Resources Building, in the City of Madison, this 13th day of October, 1995.

George E. Meyer
George E. Meyer, Secretary

(SEAL)





ORDER OF THE STATE OF WISCONSIN
NATURAL RESOURCES BOARD
REPEALING, RENUMBERING, RENUMBERING AND AMENDING, AMENDING,
REPEALING AND RECREATING AND CREATING RULES

The Wisconsin Natural Resources Board adopts an order to repeal NR 485.07(3)(c); to renumber NR 484.04(7) to (21); to renumber and amend NR 485.07(3)(b); to amend NR 485.07 (title), (1), (2), (3)(a) and (5); to repeal and recreate NR 485.02, 485.04 and 485.07(4); and to create NR 484.04(7) and (8) and NR 485.07(3)(b) relating to emission limitations and tampering inspections for motor vehicles.

AM-7-95

Analysis Prepared by the Department of Natural Resources

Authorizing statutes: ss. 144.31(1)(a), 144.42(2), (5)(f) and (6)(e) and 227.11(2)(a), Stats.

Statutes interpreted: ss. 144.31(1)(f), 144.42(2), (5)(f) and (6)(e), Stats. The State Implementation Plan developed under s. 144.31(1)(f), Stats., is revised.

The proposed rule revision will contribute to the enhancement of the state's motor vehicle emission inspection and maintenance (I/M) program to meet requirements in the Clean Air Act Amendments of 1990. The I/M program is currently operating in the seven southeastern Wisconsin counties of Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Washington, and Waukesha. Enhanced testing is planned to commence in those seven counties during December 1995, pending completion of the enhanced test facilities under a new program contract.

The proposed rule does the following:

1. Establishes emission limitations (pass/fail standards) appropriate for the new enhanced test procedures.
2. Revises the classes of motor vehicles to be exempt from the emission limitations.
3. Revises the requirements for inspection of motor vehicles for the occurrence of tampering with air pollution control equipment.

SECTION 1. NR 484.04(7) to (21) as affected by Clearinghouse Rule 95-056 are renumbered 484.04(9) to (27).

SECTION 2. NR 484.04(7) and (8) are created to read:

CFR Appendix Referenced	Title	Incorporated by Reference For
NR 484.04(7) 40 CFR part 51 Subpart S Appendix B	Test Procedures	NR 485.02(18)
(8) 40 CFR part 51 Subpart S Appendix E	Transient Test Driving Cycle	NR 485.02(22)

SECTION 3. NR 485.02 is repealed and recreated to read:

NR 485.02 DEFINITIONS. The definitions contained in ch. NR 400 apply to the terms used in this chapter. In addition, the following definitions apply to the terms used in this chapter:

(1) "Adjusted loaded vehicle weight" or "ALVW" means the numerical average of a vehicle's curb weight and its gross vehicle weight rating.

(2) "Air pollution control equipment" has the meaning given in s. 144.42(6)(a)1., Stats.

(3) "Alternative evaporative system integrity test" means a test procedure approved by the administrator which has been designated as an alternative to the evaporative system integrity test by the department under s. NR 485.04(8)(a) and which has been published in a list by the department under s. NR 485.04(8)(c).

(4) "Alternative evaporative system purge test" means a test procedure approved by the administrator which has been designated as an alternative to the evaporative system purge test by the department under s. NR 485.04(8)(b) and which has been published in a list by the department under s. NR 485.04(8)(c).

(5) "Basic vehicle frontal area" means the area enclosed by the geometric projection of the basic vehicle along the longitudinal axis, which includes tires but excludes mirrors and air deflectors, onto a plane perpendicular to the longitudinal axis of the vehicle.

(6) "Curb weight" means the actual or the manufacturer's estimated weight of the vehicle in operational status with all standard equipment plus

the weight of fuel at normal tank capacity and the weight of optional equipment.

(7) "DOT" means the Wisconsin department of transportation.

(8) "Evaporative system integrity test" or "evaporative system pressure integrity test" means the test specified in 40 CFR 51.357(a)(10), as in effect on the effective date of this subsection ... [revisor inserts date], which checks for leaks in the fuel system by monitoring the pressure decay of a pressurized fuel system for up to 2 minutes.

(9) "Evaporative system purge test" means the test specified in 40 CFR 51.357(a)(9), as in effect on the effective date of this subsection ... [revisor inserts date], which consists of measuring the total purge flow occurring in the vehicle's evaporative system during the transient emission test.

(10) "Gross vehicle weight rating" or "GVWR" means the weight specified by the vehicle manufacturer as the maximum allowable loaded weight of a single vehicle.

(11) "Heavy-duty vehicle" means any motor vehicle rated at more than 8,500 pounds GVWR or that has a vehicle curb weight of more than 6,000 pounds or that has a basic vehicle frontal area in excess of 45 square feet.

(12) "Homemade vehicle" has the meaning given in s. 341.268(1)(b), Stats.

(13) "Light-duty truck" means any motor vehicle rated at 8,500 pounds GVWR or less and which has a vehicle curb weight of 6,000 pounds or less and which has a basic vehicle frontal area of 45 square feet or less, and which is one of the following:

(a) Designed primarily for purposes of transportation of property or is a derivation of such a vehicle.

(b) Designed primarily for transportation of persons and has a capacity of more than 12 persons.

(c) Available with special features enabling off-street or off-highway operation and use.

(14) "Light-duty vehicle" means a passenger car or passenger car derivative capable of seating 12 passengers or less.

(15) "Loaded vehicle weight" or "LVW" means a vehicle's curb weight, in pounds, plus 300 pounds.

(16) "Model year" means the nominal year of manufacture of the original vehicle within the annual production period of the vehicle as designated by the manufacturer, or if a reconstructed or homemade vehicle, the first year of titling. If the manufacturer does not designate a production period, the term "model year" means the calendar year of manufacture.

(17) "Reconstructed vehicle" has the meaning given in s. 341.268(1)(d), Stats.

(18) "Steady-state test" means any of the 6 test procedures in Appendix B to Subpart S of 40 CFR part 51, incorporated by reference in s. NR 484.04. The 6 test procedures in that appendix are: the idle test, the 2 speed idle test, the loaded test, the preconditioned idle test, the idle test with loaded preconditioning, and the preconditioned 2 speed idle test.

(19) "Tamper" has the meaning given in s. 144.42(6)(a)3., Stats.

(20) "Tampering inspection" means an inspection for tampering of air pollution control equipment.

(21) "Tier 1 emission standards" means the standards for light-duty vehicles of model year 1994 and newer and light-duty trucks of model year 1994 and newer in section 202(g) and (h) of the federal clean air act, 42 USC 7521(g) and (h).

(22) "Transient driving cycle" means the 240 second driving cycle specified in Appendix E to Subpart S of 40 CFR part 51, incorporated by reference in s. NR 484.04.

(23) "Transient emission test" means the emission test specified in 40 CFR 51.357(a)(11), as in effect on the effective date of this subsection ... [revisor inserts date], which consists of 240 seconds of mass emission measurement while the vehicle is driven on a dynamometer.

SECTION 4. NR 485.04 is repealed and recreated to read:

NR 485.04 MOTOR VEHICLE EMISSION LIMITATIONS; EXEMPTIONS. (1)

APPLICABILITY. Except as provided in subs. (9) and (10), the emission limitations in this section apply to motor vehicles subject to inspection under s. 110.20(6)(a), Stats., when inspected under ch. Trans 131.

(2) TRANSIENT EMISSION TEST. Except as provided in sub. (7)(a), any motor vehicle undergoing the transient emission test may not emit from the exhaust system:

(a) Carbon monoxide in rates that exceed both:

1. The applicable composite emission rate in Table 1 when measured over the entire transient driving cycle.

2. The applicable phase 2 emission rate in Table 1 when measured from second 94 to the end of the transient driving cycle.

(b) Hydrocarbons in rates that exceed both:

1. The applicable composite emission rate in Table 1 when measured over the entire transient driving cycle.

2. The applicable phase 2 emission rate in Table 1 when measured from second 94 to the end of the transient driving cycle.

(c) Oxides of nitrogen in rates that exceed the applicable composite emission rate in Table 1 when measured over the entire transient driving cycle, except as provided in sub. (9).

(3) EVAPORATIVE SYSTEM INTEGRITY (PRESSURE) TEST. Any motor vehicle undergoing the evaporative system integrity test or any alternative evaporative system integrity test shall be pressurized to an initial pressure of 14.5 ±1.0 inches of water and, after this initial pressure is achieved, shall demonstrate the ability to maintain for 2 minutes a system pressure which would not drop 6 or more inches of water below the initial pressure achieved.

(4) EVAPORATIVE SYSTEM PURGE TEST. Except as provided in sub. (7)(b), any motor vehicle undergoing the evaporative system purge test or any alternative evaporative system purge test may not exhibit a total purge system

flow of less than one liter when measured over the entire transient driving cycle. This determination may be made by measuring the level of a tracer gas in the vehicle's exhaust.

(5) GAS CAP INTEGRITY TEST. Any motor vehicle gas cap undergoing a test for pressure leaks on a gas cap tester rig may not exhibit a pressure decay of 6 inches of water or more during a 10 second measurement period after the gas cap is pressurized to 28 ± 1.0 inches of water.

(6) STEADY-STATE TESTS. Any motor vehicle undergoing a steady-state test may not emit carbon monoxide (CO) or hydrocarbons (HC) from the exhaust system in concentrations greater than those in Table 2.

(7) FAST-PASS. (a) Transient emission test. Compliance with the emission limitations in sub. (2) for the transient emission test may be demonstrated prior to the completion of the test if all of the following conditions are met during the same second of the transient driving cycle:

1. 'Hydrocarbons.' For hydrocarbons, one of the following: a. At least 30 seconds of the transient driving cycle has elapsed and the cumulative emission level of hydrocarbons, measured from the start of the cycle in grams, is less than the applicable composite fast-pass emission limitation in sub. (1) of Table 3.

b. At least 94 seconds of the transient driving cycle has elapsed and the cumulative emission level of hydrocarbons, measured from second 94 of the cycle in grams, is less than the applicable phase 2 fast-pass emission limitation in sub. (1) of Table 3.

2. 'Carbon monoxide.' For carbon monoxide, one of the following: a. At least 30 seconds of the transient driving cycle has elapsed and the cumulative emission level of carbon monoxide, measured from the start of the cycle in grams, is less than the applicable composite fast-pass emission limitation in sub. (2) of Table 3.

b. At least 94 seconds of the transient driving cycle has elapsed and the cumulative emission level of carbon monoxide, measured from second 94 of

the cycle in grams, is less than the applicable phase 2 fast-pass emission limitation in sub. (2) of Table 3.

3. 'Oxides of nitrogen.' Except as provided in sub. (9), at least 30 seconds of the transient driving cycle has elapsed and the cumulative emission level of oxides of nitrogen, measured from the start of the cycle in grams, is less than the applicable composite fast-pass emission limitation in sub. (3) of Table 3.

(b) Purge test. Compliance with the minimum flow requirement of sub. (4) for the evaporative system purge test or an alternative evaporative system purge test may be demonstrated prior to the completion of the test if at least 30 seconds of the transient driving cycle has elapsed and the cumulative level of purge, measured from the start of the cycle in liters, is greater than the applicable fast-pass minimum flow in Table 4.

(8) ALTERNATIVE EVAPORATIVE SYSTEM TESTS. (a) Pressure test. The department may designate a test procedure as an alternative evaporative system integrity test if the department determines that the test procedure satisfies the same requirements as those for a federal alternative procedure specified in 40 CFR 51.357(a)(10)(vi) and (13) as in effect on the effective date of this section ... [revisor inserts date].

(b) Purge test. The department may designate a test procedure as an alternative evaporative system purge test if the department determines that the test procedure satisfies the same requirements as those for a federal alternative procedure specified in 40 CFR 51.357(a)(9) and (13) as in effect on the effective date of this section ... [revisor inserts date].

(c) List of alternative tests. The department shall maintain a list of alternative evaporative system integrity tests and alternative evaporative system purge tests, shall provide DOT with a current list, and shall send a copy of the list to any person upon request. A current copy of the list shall be available for inspection or copying at the department's headquarters office.

Note: The department's headquarters office is located at 101 South Webster Street, Madison, Wisconsin. Mail requests should be addressed to the Department of Natural Resources, Bureau of Air Management, PO Box 7921, Madison WI 53707.

(9) EFFECTIVE DATE FOR OXIDES OF NITROGEN REQUIREMENTS; EPA WAIVER.

(a) NO_x emissions. An inspection under s. 110.20(6)(a), Stats., shall include an inspection for emissions of oxides of nitrogen. However, the emission limitations for oxides of nitrogen in subs. (2)(c) and (7)(a)3. shall apply only to inspections conducted after November 30, 1997.

(b) EPA waiver. Notwithstanding par. (a), the emission limitations for oxides of nitrogen in subs. (2)(c) and (7)(a)3. do not apply if the inspection is conducted in an ozone nonattainment area for which the administrator has determined, under section 182(b)(1)(A)(i) or (f)(1) of the act, that oxides of nitrogen emission reductions in the ozone nonattainment area would not contribute to attainment of the ozone ambient air quality standard.

(10) EXEMPTIONS. In addition to the vehicles specified in s. 144.42(5), Stats., the following motor vehicles are exempt from the emission limitations of this section:

- (a) A motor vehicle powered solely by electricity.
- (b) A motor vehicle registered under s. 341.266(2)(a) or 341.268(2)(a), Stats., except as provided in sub. (11).

(11) PERIODIC TESTING OF COLLECTOR AND HOBBYIST VEHICLES. A motor vehicle registered under s. 341.266(2)(a) or 341.268(2)(a), Stats., shall be inspected and subject to the emission limitations of this section only in conjunction with any of the following actions:

- (a) Initial registration of the vehicle under s. 341.266(2)(a) or 341.268(2)(a), Stats.
- (b) Any transfer of ownership of the vehicle.

TABLE 1
EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(1) Motor vehicles inspected between December 1, 1995, and November 30, 1996.

(a) Light-Duty Vehicles.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile) Composite
	Composite	Phase 2	Composite	Phase 2	
1996 and newer	0.90	0.60	17.5	14.0	2.3
1991-1995	1.40	0.90	23.0	18.5	3.0
1983-1990	2.30	1.40	35.0	28.0	3.5
1981-1982	2.30	1.40	70.0	55.0	3.5
1980	2.30	1.40	70.0	55.0	7.0
1977-1979	8.50	5.30	100	80.0	7.0
1975-1976	8.50	5.30	100	80.0	10.5
1973-1974	11.5	7.25	175	140	10.5
1968-1972	11.5	7.25	175	140	11.5

(b) Light-Duty Trucks with GVWR of 6,000 pounds or less.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile) Composite
	Composite	Phase 2	Composite	Phase 2	
1996 and newer	1.15	0.75	23.0	18.5	3.0
1991-1995	2.75	1.75	70.0	55.0	3.5
1988-1990	3.70	2.30	90.0	72.0	4.0
1984-1987	3.70	2.30	90.0	72.0	8.0
1979-1983	8.50	5.30	115	90.0	8.0
1975-1978	9.20	5.80	140	110	10.5
1973-1974	11.5	7.25	175	140	10.5
1968-1972	11.5	7.25	175	140	11.5

TABLE 1 (Continued)

EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(c) Light-Duty Trucks with GVWR of 6,001 to 8,500 pounds and Heavy-Duty Vehicles with GVWR of 8,500 pounds or less.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile)
	Composite	Phase 2	Composite	Phase 2	
1997 and newer	1.15	0.75	23.0	18.5	3.0
1991-1996	2.75	1.75	70.0	55.0	5.2
1988-1990	3.70	2.30	90.0	72.0	5.8
1984-1987	3.70	2.30	90.0	72.0	8.0
1979-1983	8.50	5.30	115	90.0	8.0
1975-1978	9.20	5.80	140	110	10.5
1973-1974	11.5	7.25	175	140	10.5
1968-1972	11.5	7.25	175	140	11.5

(d) Heavy-Duty Vehicles with GVWR of 8,501 to 10,000 pounds.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile)
	Composite	Phase 2	Composite	Phase 2	
1998 and newer	2.75	1.75	70.0	55.0	4.5
1991-1997	3.70	2.30	70.0	55.0	7.0
1987-1990	3.70	2.30	90.0	72.0	9.0
1985-1986	5.75	3.60	90.0	72.0	9.0
1979-1984	8.50	5.30	115	90.0	9.0
1974-1978	11.5	7.25	175	140	11.5
1970-1973	11.5	7.25	200	160	11.5
1968-1969	23.0	14.5	230	185	17.5

(e) Heavy-Duty Vehicles with GVWR greater than 10,000 pounds.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile)
	Composite	Phase 2	Composite	Phase 2	
1998 and newer	5.50	3.50	140	110	9.0
1991-1997	7.40	4.70	140	110	14.0
1987-1990	7.40	4.70	185	150	18.5
1985-1986	11.5	7.25	185	150	18.5
1979-1984	13.0	8.20	205	165	18.5
1974-1978	15.0	9.50	230	185	23.0
1970-1973	15.0	9.50	260	210	23.0
1968-1969	27.0	17.0	290	230	35.0

TABLE 1 (Continued)

EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(2) Motor vehicles inspected between December 1, 1996, and November 30, 1997.

(a) Light-Duty Vehicles.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile)
	Composite	Phase 2	Composite	Phase 2	
1996 and newer	0.80	0.50	15.0	12.0	2.0
1991-1995	1.25	0.75	20.0	16.0	2.5
1983-1990	2.00	1.25	30.0	24.0	3.0
1981-1982	2.00	1.25	60.0	48.0	3.0
1980	2.00	1.25	60.0	48.0	6.0
1977-1979	7.50	5.00	90.0	72.0	6.0
1975-1976	7.50	5.00	90.0	72.0	9.0
1973-1974	10.0	6.00	150	120	9.0
1968-1972	10.0	6.00	150	120	10.0

(b) Light-Duty Trucks with GVWR of 6,000 pounds or less.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile)
	Composite	Phase 2	Composite	Phase 2	
1996 and newer	1.00	0.63	20.0	16.0	2.5
1991-1995	2.40	1.50	60.0	48.0	3.0
1988-1990	3.20	2.00	80.0	64.0	3.5
1984-1987	3.20	2.00	80.0	64.0	7.0
1979-1983	7.50	5.00	100	80.0	7.0
1975-1978	8.00	5.00	120	96.0	9.0
1973-1974	10.0	6.00	150	120	9.0
1968-1972	10.0	6.00	150	120	10.0

TABLE 1 (Continued)

EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(c) Light-Duty Trucks with GVWR of 6,001 to 8,500 pounds and Heavy-Duty Vehicles with GVWR of 8,500 pounds or less.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile)
	Composite	Phase 2	Composite	Phase 2	
1997 and newer	1.00	0.63	20.0	16.0	2.5
1991-1996	2.40	1.50	60.0	48.0	4.5
1988-1990	3.20	2.00	80.0	64.0	5.0
1984-1987	3.20	2.00	80.0	64.0	7.0
1979-1983	7.50	5.00	100	80.0	7.0
1975-1978	8.00	5.00	120	96.0	9.0
1973-1974	10.0	6.00	150	120	9.0
1968-1972	10.0	6.00	150	120	10.0

(d) Heavy-Duty Vehicles with GVWR of 8,501 to 10,000 pounds.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile)
	Composite	Phase 2	Composite	Phase 2	
1998 and newer	2.40	1.50	60.0	48.0	4.0
1991-1997	3.20	2.00	60.0	48.0	6.0
1987-1990	3.20	2.00	80.0	64.0	8.0
1985-1986	5.00	3.10	80.0	64.0	8.0
1979-1984	7.50	5.00	100	80.0	8.0
1974-1978	10.0	6.00	150	120	10.0
1970-1973	10.0	6.00	175	140	10.0
1968-1969	20.0	12.5	200	160	15.0

(e) Heavy-Duty Vehicles with GVWR greater than 10,000 pounds.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile)
	Composite	Phase 2	Composite	Phase 2	
1998 and newer	4.80	3.00	120	96.0	8.0
1991-1997	6.40	4.00	120	96.0	12.0
1987-1990	6.40	4.00	160	128	16.0
1985-1986	10.0	6.00	160	128	16.0
1979-1984	11.5	7.00	180	145	16.0
1974-1978	13.0	8.00	200	160	20.0
1970-1973	13.0	8.00	225	180	20.0
1968-1969	24.0	15.0	250	200	30.0

TABLE 1 (Continued)

EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(3) Motor vehicles inspected on and after December 1, 1997.

(a) Light-Duty Vehicles.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile) Composite
	Composite	Phase 2	Composite	Phase 2	
1996 and newer	0.60	0.40	10.0	8.0	1.5
1994-1995					
Tier 1 ¹	0.60	0.40	10.0	8.0	1.5
Not Tier 1 ¹	0.80	0.50	15.0	12.0	2.0
1983-1993	0.80	0.50	15.0	12.0	2.0
1981-1982	0.80	0.50	30.0	24.0	2.0
1980	0.80	0.50	30.0	24.0	4.0
1977-1979	3.00	2.00	65.0	52.0	4.0
1975-1976	3.00	2.00	65.0	52.0	6.0
1973-1974	7.00	4.50	120	96.0	6.0
1968-1972	7.00	4.50	120	96.0	7.0

(b) Light-Duty Trucks with GVWR of 6,000 pounds or less.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile) Composite
	Composite	Phase 2	Composite	Phase 2	
1996 and newer					
(≤3750 lbs LVW) ²	0.60	0.40	10.0	8.0	1.5
(>3750 lbs LVW) ²	0.80	0.50	13.0	10.0	1.8
1994-1995					
Tier 1 ³					
(≤3750 lbs LVW) ⁴	0.60	0.40	10.0	8.0	1.5
(>3750 lbs LVW) ⁴	0.80	0.50	13.0	10.0	1.8
Not Tier 1 ³	1.60	1.00	40.0	32.0	2.5
1988-1993	1.60	1.00	40.0	32.0	2.5
1984-1987	1.60	1.00	40.0	32.0	4.5
1979-1983	3.40	2.00	70.0	56.0	4.5
1975-1978	4.00	2.50	80.0	64.0	6.0
1973-1974	7.00	4.50	120	96.0	6.0
1968-1972	7.00	4.50	120	96.0	7.0

TABLE 1 (Continued)

EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(c) Light-Duty Trucks with GVWR of 6,001 to 8,500 pounds and Heavy-Duty Vehicles with GVWR of 8,500 pounds or less.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile)
	Composite	Phase 2	Composite	Phase 2	
1997 and newer					
(≤5750 lbs ALVV) ⁵	0.80	0.50	13.0	10.0	1.8
(>5750 lbs ALVV) ⁵	0.80	0.50	15.0	12.0	2.0
1996					
Tier 1 ⁶					
(≤5750 lbs ALVV) ⁷	0.80	0.50	13.0	10.0	1.8
(>5750 lbs ALVV) ⁷	0.80	0.50	15.0	12.0	2.0
Not Tier 1 ⁶	1.60	1.00	40.0	32.0	3.5
1988-1995	1.60	1.00	40.0	32.0	3.5
1984-1987	1.60	1.00	40.0	32.0	4.5
1979-1983	3.40	2.00	70.0	56.0	4.5
1975-1978	4.00	2.50	80.0	64.0	6.0
1973-1974	7.00	4.50	120	96.0	6.0
1968-1972	7.00	4.50	120	96.0	7.0

(d) Heavy-Duty Vehicles with GVWR of 8,501 to 10,000 pounds.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile)
	Composite	Phase 2	Composite	Phase 2	
1998 and newer					
1991-1997	2.00	1.25	30.0	24.0	4.0
1987-1990	2.00	1.25	40.0	32.0	5.0
1985-1986	3.00	2.00	50.0	40.0	6.0
1979-1984	5.00	3.10	75.0	60.0	6.0
1974-1978	10.0	6.00	150	120	10.0
1970-1973	10.0	6.00	175	140	10.0
1968-1969	20.0	12.5	200	160	15.0

TABLE 1 (Continued)

EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(e) Heavy-Duty Vehicles with GVWR greater than 10,000 pounds.

<u>Model Years</u>	<u>Hydrocarbons</u> (grams/mile)		<u>Carbon Monoxide</u> (grams/mile)		<u>Oxides of Nitrogen</u> (grams/mile) Composite
	Composite	Phase 2	Composite	Phase 2	
1998 and newer	3.50	2.00	60.0	48.0	7.0
1991-1997	3.50	2.00	70.0	56.0	9.0
1987-1990	3.50	2.00	70.0	56.0	11.0
1979-1986	5.00	3.10	75.0	60.0	11.0
1974-1978	13.0	8.00	150	120	20.0
1970-1973	13.0	8.00	175	140	20.0
1968-1969	24.0	15.0	200	160	30.0

- ¹ Upon written department approval granted to DOT, the emission limitations for "Not Tier 1" may be applied to all 1994-1995 model year light-duty vehicles.
- ² Upon written department approval granted to DOT, the emission limitations for ">3750 lbs LVW" may be applied to all 1996 model year and newer light-duty trucks with GVWR of 6,000 pounds or less.
- ³ Upon written department approval granted to DOT, the emission limitations for "Not Tier 1" may be applied to all 1994-1995 model year light-duty trucks with GVWR of 6,000 pounds or less.
- ⁴ Upon written department approval granted to DOT, the emission limitations for ">3750 lbs LVW" may be applied to all 1994-1995 model year light-duty trucks with GVWR of 6,000 pounds or less which are certified to meet Tier 1 emission standards.
- ⁵ Upon written department approval granted to DOT, the emission limitations for ">5750 lbs ALVW" may be applied to all 1997 model year and newer light-duty trucks with GVWR of 6,001 to 8,500 pounds and to all 1997 model year and newer heavy-duty vehicles with GVWR of 8,500 pounds or less.
- ⁶ Upon written department approval granted to DOT, the emission limitations for "Not Tier 1" may be applied to all 1996 model year light-duty trucks with GVWR of 6,001 to 8,500 pounds and to all 1996 model year heavy-duty vehicles with GVWR of 8,500 pounds or less.
- ⁷ Upon written department approval granted to DOT, the emission limitations for ">5750 lbs ALVW" may be applied to all 1996 model year light-duty trucks with GVWR of 6,001 to 8,500 pounds which are certified to meet Tier 1 emission standards and to all 1996 model year heavy-duty vehicles with GVWR of 8,500 pounds or less which are certified to meet Tier 1 emission standards.

TABLE 2
EMISSION LIMITATIONS FOR THE FOLLOWING STEADY-STATE TESTS:

- I. Idle Test
- II. 2 Speed Idle Test
- III. Loaded Test
- IV. Preconditioned Idle Test
- V. Idle Test with Loaded Preconditioning
- VI. Preconditioned 2 Speed Idle Test

(1) Light-Duty Vehicles.

<u>Model Years</u>	<u>Hydrocarbons</u> (parts per million of exhaust)	<u>Carbon Monoxide</u> (as a percent of exhaust)
1981 and newer	220	1.2
1980	230	2.0
1979	275	3.0
1978	350	4.0
1975-1977	450	5.5
1972-1974	550	7.0
1968-1971	800	8.0

(2) Light-Duty Trucks with GVWR of 6,000 pounds or less.

<u>Model Years</u>	<u>Hydrocarbons</u> (parts per million of exhaust)	<u>Carbon Monoxide</u> (as a percent of exhaust)
1985 and newer	220	1.2
1981-1984	250	2.0
1980	275	2.5
1979	300	3.0
1978	450	5.0
1975-1977	500	6.0
1972-1974	700	7.0
1968-1971	800	8.0

TABLE 2 (Continued)

EMISSION LIMITATIONS FOR THE FOLLOWING STEADY-STATE TESTS:

- I. Idle Test
- II. 2 Speed Idle Test
- III. Loaded Test
- IV. Preconditioned Idle Test
- V. Idle Test with Loaded Preconditioning
- VI. Preconditioned 2 Speed Idle Test

- (3) Light-Duty Trucks with GVWR of 6,001 to 8,500 pounds and Heavy-Duty Vehicles with GVWR of 8,500 pounds or less.

<u>Model Years</u>	<u>Hydrocarbons</u> (parts per million of exhaust)	<u>Carbon Monoxide</u> (as a percent of exhaust)
1985 and newer	220	1.2
1981-1984	250	2.0
1980	275	2.5
1979	300	3.0
1978	450	5.5
1975-1977	550	6.5
1972-1974	700	7.0
1970-1971	800	8.0
1968-1969	1450	9.0

- (4) Heavy-Duty Vehicles with GVWR greater than 8,500 pounds.

<u>Model Years</u>	<u>Hydrocarbons</u> (parts per million of exhaust)	<u>Carbon Monoxide</u> (as a percent of exhaust)
1985 and newer	300	3.0
1979-1984	700	7.0
1972-1978	900	9.0
1968-1971	1500	9.5

TABLE 3

FAST-PASS EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(1) Hydrocarbon exhaust emissions

(a) Motor vehicles having composite hydrocarbon emission limitations in Table 1 of at least 0.80 grams/mile but less than 1.25 grams/mile.

<u>Second</u>	<u>Com-</u> <u>posite</u>	<u>Phase 2</u>									
	(grams)	(grams)									
30	0.124	N/A	83	0.329	N/A	136	0.658	0.055	189	1.188	0.418
31	0.126	N/A	84	0.333	N/A	137	0.663	0.055	190	1.203	0.429
32	0.129	N/A	85	0.336	N/A	138	0.666	0.056	191	1.219	0.442
33	0.135	N/A	86	0.339	N/A	139	0.668	0.059	192	1.233	0.457
34	0.140	N/A	87	0.343	N/A	140	0.670	0.061	193	1.251	0.473
35	0.146	N/A	88	0.347	N/A	141	0.672	0.061	194	1.255	0.487
36	0.150	N/A	89	0.350	N/A	142	0.675	0.061	195	1.258	0.501
37	0.153	N/A	90	0.356	N/A	143	0.678	0.063	196	1.265	0.510
38	0.156	N/A	91	0.358	N/A	144	0.681	0.064	197	1.280	0.512
39	0.160	N/A	92	0.360	N/A	145	0.684	0.065	198	1.293	0.514
40	0.165	N/A	93	0.363	N/A	146	0.686	0.066	199	1.301	0.516
41	0.169	N/A	94	0.367	0.000	147	0.688	0.067	200	1.313	0.518
42	0.172	N/A	95	0.370	0.000	148	0.690	0.068	201	1.324	0.527
43	0.173	N/A	96	0.372	0.000	149	0.692	0.069	202	1.332	0.540
44	0.177	N/A	97	0.376	0.000	150	0.694	0.070	203	1.341	0.547
45	0.197	N/A	98	0.388	0.000	151	0.696	0.071	204	1.357	0.553
46	0.200	N/A	99	0.396	0.000	152	0.698	0.072	205	1.375	0.559
47	0.208	N/A	100	0.405	0.001	153	0.700	0.073	206	1.392	0.563
48	0.221	N/A	101	0.410	0.002	154	0.702	0.073	207	1.408	0.567
49	0.232	N/A	102	0.411	0.003	155	0.704	0.074	208	1.422	0.571
50	0.235	N/A	103	0.412	0.006	156	0.706	0.077	209	1.433	0.575
51	0.238	N/A	104	0.413	0.007	157	0.708	0.079	210	1.443	0.579
52	0.240	N/A	105	0.421	0.008	158	0.710	0.082	211	1.453	0.595
53	0.242	N/A	106	0.428	0.009	159	0.712	0.082	212	1.463	0.605
54	0.246	N/A	107	0.430	0.010	160	0.716	0.086	213	1.468	0.614
55	0.249	N/A	108	0.455	0.013	161	0.750	0.095	214	1.470	0.622
56	0.252	N/A	109	0.459	0.015	162	0.784	0.107	215	1.474	0.627
57	0.261	N/A	110	0.462	0.017	163	0.805	0.115	216	1.478	0.638
58	0.271	N/A	111	0.464	0.021	164	0.840	0.122	217	1.481	0.643
59	0.276	N/A	112	0.466	0.024	165	0.853	0.127	218	1.484	0.643
60	0.278	N/A	113	0.468	0.024	166	0.874	0.159	219	1.487	0.645
61	0.280	N/A	114	0.471	0.025	167	0.903	0.186	220	1.490	0.651
62	0.282	N/A	115	0.488	0.026	168	0.910	0.189	221	1.493	0.655
63	0.283	N/A	116	0.513	0.029	169	0.914	0.200	222	1.504	0.663
64	0.284	N/A	117	0.538	0.032	170	0.916	0.220	223	1.522	0.671
65	0.285	N/A	118	0.561	0.035	171	0.919	0.236	224	1.547	0.675
66	0.286	N/A	119	0.577	0.035	172	0.931	0.247	225	1.549	0.684
67	0.288	N/A	120	0.580	0.036	173	0.948	0.257	226	1.562	0.694
68	0.291	N/A	121	0.586	0.038	174	0.983	0.267	227	1.574	0.701
69	0.294	N/A	122	0.594	0.040	175	1.018	0.283	228	1.579	0.702
70	0.296	N/A	123	0.603	0.041	176	1.027	0.295	229	1.584	0.708
71	0.298	N/A	124	0.610	0.042	177	1.035	0.312	230	1.589	0.708
72	0.300	N/A	125	0.615	0.042	178	1.051	0.318	231	1.590	0.709
73	0.302	N/A	126	0.624	0.042	179	1.074	0.323	232	1.596	0.710
74	0.304	N/A	127	0.628	0.045	180	1.084	0.337	233	1.598	0.710
75	0.307	N/A	128	0.632	0.046	181	1.099	0.345	234	1.604	0.711
76	0.308	N/A	129	0.637	0.046	182	1.121	0.350	235	1.610	0.712
77	0.308	N/A	130	0.641	0.049	183	1.132	0.359	236	1.612	0.712
78	0.308	N/A	131	0.643	0.050	184	1.152	0.387	237	1.613	0.712
79	0.314	N/A	132	0.644	0.052	185	1.161	0.398	238	1.614	0.713
80	0.320	N/A	133	0.645	0.054	186	1.168	0.400	239	1.615	0.716
81	0.324	N/A	134	0.647	0.054	187	1.175	0.402			
82	0.327	N/A	135	0.651	0.054	188	1.181	0.405			

TABLE 3 (Continued)

FAST-PASS EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(b) Motor vehicles having composite hydrocarbon emission limitations in Table 1 of at least 1.25 grams/mile but less than 2.00 grams/mile.

<u>Second</u>	Com- posite (grams)	Phase 2 (grams)									
30	0.247	N/A	83	0.694	N/A	136	1.147	0.130	189	1.991	0.629
31	0.253	N/A	84	0.700	N/A	137	1.156	0.134	190	1.993	0.638
32	0.258	N/A	85	0.705	N/A	138	1.163	0.139	191	1.995	0.648
33	0.263	N/A	86	0.709	N/A	139	1.186	0.146	192	2.001	0.659
34	0.268	N/A	87	0.713	N/A	140	1.253	0.149	193	2.015	0.663
35	0.277	N/A	88	0.717	N/A	141	1.262	0.151	194	2.031	0.671
36	0.283	N/A	89	0.721	N/A	142	1.271	0.153	195	2.047	0.681
37	0.293	N/A	90	0.724	N/A	143	1.277	0.155	196	2.063	0.693
38	0.297	N/A	91	0.727	N/A	144	1.283	0.157	197	2.079	0.709
39	0.298	N/A	92	0.729	N/A	145	1.291	0.162	198	2.094	0.725
40	0.313	N/A	93	0.731	N/A	146	1.294	0.164	199	2.109	0.740
41	0.320	N/A	94	0.734	0.000	147	1.296	0.166	200	2.122	0.754
42	0.327	N/A	95	0.740	0.000	148	1.298	0.168	201	2.130	0.767
43	0.342	N/A	96	0.748	0.001	149	1.303	0.169	202	2.137	0.775
44	0.360	N/A	97	0.759	0.001	150	1.316	0.170	203	2.157	0.787
45	0.376	N/A	98	0.771	0.002	151	1.330	0.171	204	2.172	0.795
46	0.389	N/A	99	0.783	0.003	152	1.342	0.172	205	2.194	0.803
47	0.408	N/A	100	0.793	0.005	153	1.348	0.173	206	2.222	0.854
48	0.423	N/A	101	0.810	0.007	154	1.353	0.175	207	2.245	0.859
49	0.434	N/A	102	0.823	0.009	155	1.362	0.178	208	2.268	0.872
50	0.444	N/A	103	0.836	0.011	156	1.365	0.180	209	2.279	0.892
51	0.454	N/A	104	0.853	0.016	157	1.366	0.189	210	2.288	0.896
52	0.465	N/A	105	0.871	0.017	158	1.373	0.198	211	2.301	0.903
53	0.472	N/A	106	0.887	0.022	159	1.397	0.203	212	2.316	0.924
54	0.478	N/A	107	0.899	0.029	160	1.423	0.207	213	2.332	0.938
55	0.485	N/A	108	0.931	0.036	161	1.440	0.214	214	2.345	0.941
56	0.493	N/A	109	0.947	0.040	162	1.452	0.221	215	2.354	0.951
57	0.500	N/A	110	0.957	0.047	163	1.465	0.229	216	2.362	0.966
58	0.505	N/A	111	0.965	0.052	164	1.509	0.247	217	2.368	0.979
59	0.514	N/A	112	0.971	0.056	165	1.533	0.274	218	2.376	0.980
60	0.537	N/A	113	0.977	0.061	166	1.555	0.309	219	2.384	0.981
61	0.540	N/A	114	0.983	0.064	167	1.576	0.318	220	2.391	1.005
62	0.543	N/A	115	1.003	0.072	168	1.598	0.322	221	2.395	1.016
63	0.546	N/A	116	1.030	0.081	169	1.618	0.333	222	2.400	1.022
64	0.551	N/A	117	1.041	0.082	170	1.636	0.343	223	2.405	1.028
65	0.559	N/A	118	1.050	0.083	171	1.666	0.356	224	2.409	1.035
66	0.567	N/A	119	1.052	0.092	172	1.685	0.385	225	2.413	1.041
67	0.575	N/A	120	1.055	0.094	173	1.726	0.409	226	2.417	1.045
68	0.588	N/A	121	1.061	0.097	174	1.742	0.433	227	2.426	1.051
69	0.595	N/A	122	1.071	0.100	175	1.756	0.453	228	2.428	1.055
70	0.601	N/A	123	1.081	0.103	176	1.769	0.463	229	2.431	1.059
71	0.606	N/A	124	1.091	0.106	177	1.784	0.507	230	2.433	1.064
72	0.610	N/A	125	1.102	0.108	178	1.802	0.523	231	2.441	1.069
73	0.617	N/A	126	1.110	0.110	179	1.822	0.528	232	2.461	1.071
74	0.631	N/A	127	1.116	0.112	180	1.843	0.541	233	2.476	1.072
75	0.643	N/A	128	1.121	0.114	181	1.864	0.549	234	2.488	1.073
76	0.651	N/A	129	1.125	0.116	182	1.884	0.559	235	2.498	1.081
77	0.659	N/A	130	1.128	0.118	183	1.896	0.571	236	2.508	1.083
78	0.667	N/A	131	1.130	0.120	184	1.915	0.584	237	2.516	1.084
79	0.676	N/A	132	1.132	0.122	185	1.940	0.598	238	2.520	1.085
80	0.681	N/A	133	1.134	0.123	186	1.958	0.613	239	2.523	1.086
81	0.685	N/A	134	1.135	0.124	187	1.972	0.624			
82	0.689	N/A	135	1.143	0.127	188	1.985	0.629			

TABLE 3 (Continued)

FAST-PASS EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(c) Motor vehicles having composite hydrocarbon emission limitations in Table 1 of 2.00 grams/mile or greater.

<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Phase 2</u> (grams)									
30	0.407	N/A	83	1.136	N/A	136	1.888	0.364	189	3.136	1.254
31	0.415	N/A	84	1.160	N/A	137	1.896	0.368	190	3.151	1.278
32	0.423	N/A	85	1.182	N/A	138	1.911	0.378	191	3.163	1.300
33	0.436	N/A	86	1.201	N/A	139	1.928	0.391	192	3.209	1.313
34	0.451	N/A	87	1.217	N/A	140	1.949	0.402	193	3.223	1.324
35	0.464	N/A	88	1.233	N/A	141	1.969	0.408	194	3.237	1.340
36	0.468	N/A	89	1.248	N/A	142	1.982	0.422	195	3.263	1.367
37	0.475	N/A	90	1.262	N/A	143	1.999	0.428	196	3.302	1.387
38	0.487	N/A	91	1.271	N/A	144	2.011	0.432	197	3.338	1.402
39	0.506	N/A	92	1.279	N/A	145	2.022	0.434	198	3.372	1.417
40	0.530	N/A	93	1.287	N/A	146	2.035	0.439	199	3.390	1.432
41	0.549	N/A	94	1.295	0.001	147	2.043	0.450	200	3.428	1.446
42	0.569	N/A	95	1.302	0.002	148	2.049	0.460	201	3.470	1.460
43	0.588	N/A	96	1.309	0.003	149	2.063	0.467	202	3.493	1.477
44	0.609	N/A	97	1.316	0.004	150	2.085	0.472	203	3.509	1.492
45	0.621	N/A	98	1.325	0.008	151	2.104	0.480	204	3.522	1.501
46	0.636	N/A	99	1.339	0.015	152	2.117	0.491	205	3.533	1.510
47	0.649	N/A	100	1.356	0.021	153	2.127	0.503	206	3.550	1.522
48	0.666	N/A	101	1.365	0.026	154	2.138	0.505	207	3.578	1.561
49	0.679	N/A	102	1.378	0.039	155	2.152	0.515	208	3.607	1.585
50	0.696	N/A	103	1.397	0.044	156	2.168	0.522	209	3.630	1.597
51	0.712	N/A	104	1.420	0.055	157	2.186	0.527	210	3.658	1.607
52	0.727	N/A	105	1.445	0.094	158	2.205	0.537	211	3.701	1.627
53	0.745	N/A	106	1.470	0.110	159	2.224	0.549	212	3.745	1.645
54	0.760	N/A	107	1.491	0.116	160	2.242	0.568	213	3.778	1.656
55	0.776	N/A	108	1.506	0.132	161	2.268	0.586	214	3.814	1.663
56	0.797	N/A	109	1.517	0.151	162	2.308	0.610	215	3.825	1.669
57	0.814	N/A	110	1.528	0.159	163	2.352	0.648	216	3.835	1.674
58	0.826	N/A	111	1.542	0.172	164	2.406	0.677	217	3.844	1.685
59	0.837	N/A	112	1.559	0.186	165	2.421	0.699	218	3.853	1.705
60	0.849	N/A	113	1.578	0.199	166	2.435	0.720	219	3.864	1.711
61	0.862	N/A	114	1.594	0.207	167	2.470	0.738	220	3.874	1.735
62	0.872	N/A	115	1.605	0.216	168	2.501	0.767	221	3.891	1.752
63	0.887	N/A	116	1.615	0.229	169	2.537	0.828	222	3.928	1.760
64	0.895	N/A	117	1.625	0.235	170	2.571	0.855	223	3.966	1.774
65	0.903	N/A	118	1.642	0.240	171	2.625	0.869	224	4.008	1.778
66	0.925	N/A	119	1.670	0.245	172	2.657	0.885	225	4.010	1.797
67	0.933	N/A	120	1.694	0.261	173	2.683	0.900	226	4.012	1.802
68	0.945	N/A	121	1.705	0.267	174	2.701	0.941	227	4.016	1.804
69	0.959	N/A	122	1.717	0.277	175	2.717	0.979	228	4.019	1.806
70	0.970	N/A	123	1.732	0.287	176	2.732	1.002	229	4.057	1.810
71	0.980	N/A	124	1.747	0.298	177	2.756	1.025	230	4.065	1.814
72	0.988	N/A	125	1.763	0.308	178	2.781	1.047	231	4.072	1.827
73	0.997	N/A	126	1.779	0.316	179	2.811	1.065	232	4.081	1.833
74	1.022	N/A	127	1.795	0.322	180	2.853	1.089	233	4.104	1.837
75	1.037	N/A	128	1.810	0.329	181	2.898	1.109	234	4.124	1.841
76	1.051	N/A	129	1.823	0.338	182	2.946	1.133	235	4.128	1.845
77	1.064	N/A	130	1.835	0.346	183	2.988	1.158	236	4.132	1.851
78	1.075	N/A	131	1.845	0.354	184	3.023	1.184	237	4.137	1.855
79	1.087	N/A	132	1.854	0.356	185	3.057	1.209	238	4.147	1.857
80	1.097	N/A	133	1.862	0.357	186	3.076	1.222	239	4.158	1.860
81	1.105	N/A	134	1.870	0.359	187	3.101	1.231			
82	1.114	N/A	135	1.883	0.362	188	3.120	1.239			

TABLE 3 (Continued)

FAST-PASS EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(2) Carbon monoxide exhaust emissions

(a) Motor vehicles having composite carbon monoxide emission limitations in Table 1 of at least 15.0 grams/mile but less than 20.0 grams/mile.

<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Phase 2</u> (grams)									
30	0.693	N/A	83	2.227	N/A	136	4.531	0.616	189	23.876	12.019
31	0.773	N/A	84	2.236	N/A	137	4.534	0.639	190	24.018	12.170
32	0.837	N/A	85	2.243	N/A	138	4.542	0.653	191	24.464	12.517
33	0.851	N/A	86	2.262	N/A	139	4.553	0.662	192	24.685	12.598
34	0.853	N/A	87	2.271	N/A	140	4.554	0.683	193	24.931	12.625
35	0.857	N/A	88	2.284	N/A	141	4.554	0.696	194	25.188	12.653
36	0.900	N/A	89	2.299	N/A	142	4.554	0.708	195	25.468	12.777
37	0.960	N/A	90	2.308	N/A	143	4.554	0.721	196	25.627	12.906
38	1.034	N/A	91	2.326	N/A	144	4.554	0.739	197	25.746	12.989
39	1.070	N/A	92	2.330	N/A	145	4.554	0.742	198	25.850	13.060
40	1.076	N/A	93	2.331	N/A	146	4.554	0.743	199	25.974	13.165
41	1.083	N/A	94	2.344	0.000	147	4.554	0.745	200	26.141	13.242
42	1.102	N/A	95	2.347	0.000	148	4.554	0.748	201	26.225	13.412
43	1.111	N/A	96	2.355	0.000	149	4.554	0.751	202	26.338	13.662
44	1.114	N/A	97	2.395	0.000	150	4.554	0.762	203	26.547	13.773
45	1.157	N/A	98	2.451	0.000	151	4.556	0.789	204	26.818	13.942
46	1.344	N/A	99	2.508	0.004	152	4.556	0.790	205	27.052	14.090
47	1.482	N/A	100	2.590	0.008	153	4.565	0.794	206	27.393	14.224
48	1.530	N/A	101	2.660	0.015	154	4.612	0.799	207	27.501	14.426
49	1.542	N/A	102	2.749	0.026	155	4.834	0.805	208	27.632	14.498
50	1.553	N/A	103	2.913	0.038	156	5.702	0.842	209	27.803	14.776
51	1.571	N/A	104	3.162	0.038	157	5.841	0.990	210	27.953	14.907
52	1.595	N/A	105	3.170	0.039	158	6.170	1.038	211	28.205	14.916
53	1.633	N/A	106	3.197	0.061	159	6.670	1.357	212	28.543	15.014
54	1.685	N/A	107	3.288	0.062	160	7.425	1.455	213	28.997	15.221
55	1.689	N/A	108	3.419	0.108	161	8.379	1.546	214	29.000	15.472
56	1.693	N/A	109	3.587	0.168	162	9.648	1.824	215	29.005	15.555
57	1.700	N/A	110	3.595	0.173	163	10.918	2.746	216	29.081	15.652
58	1.723	N/A	111	3.640	0.237	164	12.127	3.073	217	29.281	15.969
59	1.852	N/A	112	3.740	0.266	165	12.731	3.633	218	29.483	16.028
60	1.872	N/A	113	3.868	0.280	166	12.831	4.505	219	29.734	16.375
61	1.872	N/A	114	3.877	0.291	167	12.892	4.952	220	29.803	16.487
62	1.872	N/A	115	3.934	0.314	168	12.932	5.254	221	29.821	16.524
63	1.900	N/A	116	4.015	0.331	169	13.702	5.730	222	29.847	16.578
64	1.917	N/A	117	4.061	0.345	170	14.139	6.051	223	29.862	16.684
65	1.944	N/A	118	4.063	0.350	171	14.964	6.333	224	29.873	16.755
66	2.000	N/A	119	4.079	0.356	172	15.704	6.490	225	30.008	16.770
67	2.060	N/A	120	4.140	0.367	173	16.253	6.796	226	30.126	16.805
68	2.064	N/A	121	4.185	0.388	174	16.907	7.205	227	30.127	16.865
69	2.076	N/A	122	4.199	0.407	175	17.655	8.151	228	30.127	16.960
70	2.104	N/A	123	4.205	0.463	176	18.020	8.230	229	30.208	16.960
71	2.117	N/A	124	4.212	0.480	177	18.349	8.584	230	30.314	16.962
72	2.125	N/A	125	4.232	0.506	178	18.671	8.800	231	30.323	16.988
73	2.130	N/A	126	4.298	0.518	179	18.972	8.847	232	30.325	17.072
74	2.138	N/A	127	4.344	0.522	180	19.228	8.913	233	30.368	17.094
75	2.152	N/A	128	4.361	0.525	181	20.123	9.122	234	30.411	17.184
76	2.170	N/A	129	4.366	0.528	182	20.405	9.532	235	30.416	17.187
77	2.188	N/A	130	4.369	0.530	183	20.754	10.256	236	30.428	17.188
78	2.200	N/A	131	4.372	0.530	184	21.684	10.862	237	30.430	17.189
79	2.212	N/A	132	4.435	0.534	185	21.955	10.996	238	30.452	17.241
80	2.212	N/A	133	4.523	0.550	186	22.650	11.206	239	30.488	17.370
81	2.221	N/A	134	4.524	0.554	187	22.989	11.514			
82	2.222	N/A	135	4.525	0.590	188	23.535	11.894			

TABLE 3 (Continued)

FAST-PASS EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(b) Motor vehicles having composite carbon monoxide emission limitations in Table 1 of at least 20.0 grams/mile but less than 30.0 grams/mile.

<u>Second</u>	<u>Com-</u> <u>posite</u>	<u>Phase 2</u>									
	(grams)			(grams)			(grams)			(grams)	
30	1.502	N/A	83	4.482	N/A	136	8.767	0.754	189	32.239	15.137
31	1.546	N/A	84	4.515	N/A	137	9.029	0.780	190	32.547	15.138
32	1.568	N/A	85	4.518	N/A	138	9.238	0.795	191	32.855	15.141
33	1.582	N/A	86	4.520	N/A	139	9.389	0.804	192	33.153	15.595
34	1.593	N/A	87	4.522	N/A	140	9.493	0.810	193	33.444	15.658
35	1.602	N/A	88	4.522	N/A	141	9.583	0.815	194	33.482	15.704
36	1.621	N/A	89	4.523	N/A	142	9.626	0.818	195	33.516	15.729
37	1.631	N/A	90	4.526	N/A	143	9.669	0.821	196	33.549	16.058
38	1.702	N/A	91	4.527	N/A	144	9.716	0.825	197	33.653	16.987
39	1.784	N/A	92	4.527	N/A	145	9.763	0.840	198	33.973	17.064
40	1.879	N/A	93	4.528	N/A	146	9.809	0.847	199	34.159	17.073
41	2.162	N/A	94	4.528	0.000	147	9.852	0.855	200	34.191	17.153
42	2.307	N/A	95	4.528	0.000	148	9.885	0.865	201	34.250	17.332
43	2.343	N/A	96	4.529	0.000	149	9.932	0.874	202	34.469	17.406
44	2.376	N/A	97	4.575	0.000	150	9.986	0.891	203	34.716	17.641
45	2.406	N/A	98	4.703	0.002	151	10.039	0.914	204	34.969	17.922
46	2.433	N/A	99	4.805	0.005	152	10.072	0.929	205	35.144	18.484
47	2.458	N/A	100	4.886	0.010	153	10.090	0.937	206	35.418	18.553
48	2.483	N/A	101	4.957	0.017	154	10.105	0.942	207	35.766	18.658
49	2.774	N/A	102	5.104	0.052	155	10.146	0.949	208	35.949	18.953
50	2.844	N/A	103	5.340	0.085	156	10.245	1.375	209	36.010	19.266
51	2.900	N/A	104	5.496	0.094	157	10.397	1.576	210	36.548	19.309
52	2.936	N/A	105	5.625	0.122	158	10.923	1.943	211	37.179	19.731
53	3.133	N/A	106	5.815	0.151	159	11.970	2.820	212	37.651	19.902
54	3.304	N/A	107	6.473	0.191	160	13.421	3.281	213	38.041	20.012
55	3.407	N/A	108	7.037	0.234	161	15.289	3.483	214	38.591	20.260
56	3.456	N/A	109	7.419	0.246	162	15.912	3.620	215	38.852	20.739
57	3.480	N/A	110	7.643	0.257	163	16.530	4.168	216	38.861	21.346
58	3.518	N/A	111	7.759	0.286	164	17.622	4.338	217	38.926	21.810
59	3.560	N/A	112	7.824	0.379	165	18.366	4.682	218	39.194	22.001
60	3.593	N/A	113	7.889	0.425	166	19.869	5.633	219	39.474	22.290
61	3.628	N/A	114	7.960	0.457	167	20.711	6.137	220	39.668	22.324
62	3.641	N/A	115	8.024	0.477	168	22.319	6.853	221	39.781	22.343
63	3.655	N/A	116	8.076	0.494	169	23.751	7.136	222	39.890	22.522
64	3.680	N/A	117	8.111	0.504	170	24.842	7.320	223	39.954	22.683
65	3.700	N/A	118	8.130	0.512	171	25.410	7.685	224	39.984	22.850
66	3.728	N/A	119	8.148	0.519	172	25.798	8.052	225	39.989	22.853
67	3.857	N/A	120	8.211	0.529	173	26.122	8.344	226	39.990	22.853
68	3.894	N/A	121	8.478	0.529	174	26.353	8.602	227	39.990	22.853
69	3.943	N/A	122	8.548	0.530	175	26.638	8.898	228	39.990	22.872
70	3.983	N/A	123	8.561	0.531	176	27.219	9.251	229	39.991	22.872
71	4.009	N/A	124	8.568	0.532	177	27.279	10.253	230	40.012	22.872
72	4.023	N/A	125	8.572	0.533	178	27.320	10.828	231	40.061	22.895
73	4.023	N/A	126	8.584	0.548	179	27.352	10.933	232	40.116	22.911
74	4.053	N/A	127	8.592	0.610	180	27.822	11.060	233	40.249	22.922
75	4.063	N/A	128	8.596	0.614	181	28.763	11.188	234	40.253	22.939
76	4.077	N/A	129	8.597	0.622	182	29.402	11.345	235	40.290	23.010
77	4.225	N/A	130	8.601	0.631	183	29.971	11.733	236	40.385	23.010
78	4.243	N/A	131	8.605	0.640	184	30.276	12.598	237	40.488	23.010
79	4.260	N/A	132	8.608	0.646	185	30.988	12.953	238	40.720	23.010
80	4.282	N/A	133	8.626	0.650	186	31.095	13.213	239	40.763	23.010
81	4.322	N/A	134	8.650	0.652	187	31.314	14.131			
82	4.398	N/A	135	8.660	0.738	188	31.833	14.839			

TABLE 3 (Continued)

FAST-PASS EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(c) Motor vehicles having composite carbon monoxide emission limitations in Table 1 of 30.0 grams/mile or greater.

<u>Second</u>	<u>Com-</u> <u>posite</u>	<u>Phase 2</u>									
	(grams)	(grams)									
30	3.804	N/A	83	11.136	N/A	136	20.746	3.304	189	52.076	25.276
31	3.985	N/A	84	11.165	N/A	137	21.068	3.310	190	52.857	25.578
32	4.215	N/A	85	11.191	N/A	138	21.380	3.320	191	52.876	25.859
33	4.440	N/A	86	11.205	N/A	139	21.748	3.354	192	53.067	25.985
34	4.579	N/A	87	11.211	N/A	140	22.046	3.436	193	53.777	26.153
35	4.688	N/A	88	11.211	N/A	141	22.348	3.443	194	54.242	26.582
36	4.749	N/A	89	11.211	N/A	142	22.397	3.452	195	54.489	27.067
37	4.783	N/A	90	11.211	N/A	143	22.407	3.490	196	54.601	27.456
38	4.813	N/A	91	11.220	N/A	144	22.417	3.552	197	54.912	27.805
39	4.876	N/A	92	11.294	N/A	145	22.922	3.588	198	55.588	28.070
40	5.104	N/A	93	11.332	N/A	146	22.951	3.600	199	56.266	28.590
41	5.217	N/A	94	11.355	0.000	147	22.976	3.616	200	56.617	28.914
42	5.383	N/A	95	11.383	0.000	148	23.017	3.627	201	56.863	29.063
43	5.571	N/A	96	11.410	0.001	149	23.073	3.636	202	57.204	29.502
44	5.888	N/A	97	11.433	0.006	150	23.161	3.676	203	57.371	29.697
45	6.199	N/A	98	11.516	0.020	151	23.218	3.882	204	57.487	29.713
46	6.245	N/A	99	11.820	0.051	152	23.253	4.011	205	57.728	29.783
47	6.318	N/A	100	12.104	0.092	153	23.337	4.047	206	58.097	29.942
48	6.418	N/A	101	12.344	0.131	154	23.425	4.067	207	58.572	30.284
49	6.540	N/A	102	12.781	0.200	155	23.534	4.081	208	59.024	30.755
50	6.690	N/A	103	13.472	0.307	156	23.652	4.116	209	59.321	31.287
51	6.875	N/A	104	14.405	0.582	157	23.739	4.251	210	59.715	31.549
52	7.029	N/A	105	14.808	0.800	158	24.606	5.099	211	60.045	31.820
53	7.129	N/A	106	14.965	0.925	159	25.615	5.383	212	60.453	32.250
54	7.359	N/A	107	15.121	0.973	160	26.073	6.362	213	60.935	32.546
55	7.722	N/A	108	15.372	1.091	161	28.496	7.926	214	61.307	32.808
56	8.017	N/A	109	15.530	1.113	162	29.772	8.429	215	61.666	33.142
57	8.249	N/A	110	15.687	1.213	163	31.056	9.201	216	62.148	33.529
58	8.425	N/A	111	16.018	1.344	164	33.351	10.825	217	62.532	33.763
59	8.563	N/A	112	16.527	1.399	165	34.890	12.291	218	62.546	33.921
60	8.686	N/A	113	16.810	1.520	166	35.937	13.366	219	62.559	33.961
61	8.804	N/A	114	16.961	1.640	167	37.012	14.428	220	62.570	33.983
62	8.916	N/A	115	17.120	1.684	168	37.892	15.318	221	62.846	34.007
63	9.025	N/A	116	17.135	1.693	169	39.028	15.699	222	63.097	34.032
64	9.138	N/A	117	17.249	1.786	170	40.406	16.073	223	63.150	34.054
65	9.250	N/A	118	17.451	2.007	171	41.379	16.475	224	63.150	34.061
66	9.354	N/A	119	17.509	2.084	172	42.033	17.158	225	63.150	34.082
67	9.457	N/A	120	17.605	2.179	173	42.432	17.532	226	63.150	34.100
68	9.575	N/A	121	17.734	2.264	174	42.742	17.965	227	63.150	34.109
69	9.728	N/A	122	18.049	2.328	175	43.399	18.242	228	63.150	34.129
70	9.938	N/A	123	18.447	2.375	176	43.895	18.283	229	63.150	34.284
71	10.140	N/A	124	18.592	2.437	177	44.227	18.480	230	63.150	34.397
72	10.222	N/A	125	18.657	2.543	178	44.926	19.576	231	63.150	34.463
73	10.261	N/A	126	18.796	2.593	179	45.256	20.015	232	63.150	34.465
74	10.278	N/A	127	18.952	2.641	180	45.553	20.203	233	63.150	34.466
75	10.290	N/A	128	19.137	2.663	181	45.753	20.433	234	63.153	34.468
76	10.715	N/A	129	19.329	2.672	182	46.210	21.025	235	63.159	34.470
77	10.790	N/A	130	19.519	2.676	183	47.017	21.882	236	63.173	34.471
78	10.844	N/A	131	19.707	2.683	184	48.185	22.204	237	63.193	34.472
79	10.921	N/A	132	19.882	2.817	185	48.741	22.859	238	63.214	34.472
80	11.010	N/A	133	19.905	2.992	186	49.462	23.533	239	63.233	34.473
81	11.090	N/A	134	20.049	3.111	187	50.313	24.281			
82	11.136	N/A	135	20.460	3.234	188	51.285	25.078			

TABLE 3 (Continued)

FAST-PASS EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(3) Oxides of nitrogen exhaust emissions

(a) Motor vehicles having composite oxides of nitrogen emission limitations in Table 1 of at least 2.0 grams/mile but less than 2.5 grams/mile.

<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)
30	0.167	83	0.716	136	1.160	189	2.894
31	0.177	84	0.724	137	1.174	190	2.931
32	0.188	85	0.737	138	1.183	191	2.971
33	0.214	86	0.747	139	1.197	192	3.020
34	0.232	87	0.748	140	1.223	193	3.077
35	0.240	88	0.748	141	1.255	194	3.132
36	0.243	89	0.748	142	1.272	195	3.185
37	0.245	90	0.748	143	1.286	196	3.219
38	0.246	91	0.748	144	1.304	197	3.268
39	0.246	92	0.748	145	1.307	198	3.299
40	0.250	93	0.748	146	1.312	199	3.350
41	0.260	94	0.748	147	1.317	200	3.406
42	0.277	95	0.748	148	1.321	201	3.466
43	0.311	96	0.748	149	1.325	202	3.497
44	0.328	97	0.748	150	1.328	203	3.514
45	0.343	98	0.748	151	1.332	204	3.517
46	0.359	99	0.751	152	1.338	205	3.519
47	0.373	100	0.764	153	1.344	206	3.523
48	0.383	101	0.789	154	1.350	207	3.545
49	0.385	102	0.822	155	1.357	208	3.570
50	0.400	103	0.867	156	1.365	209	3.600
51	0.410	104	0.905	157	1.379	210	3.619
52	0.434	105	0.925	158	1.414	211	3.639
53	0.464	106	0.955	159	1.466	212	3.686
54	0.472	107	0.985	160	1.514	213	3.732
55	0.480	108	0.993	161	1.559	214	3.791
56	0.491	109	0.995	162	1.591	215	3.833
57	0.500	110	0.996	163	1.641	216	3.890
58	0.506	111	1.010	164	1.719	217	3.932
59	0.509	112	1.028	165	1.777	218	3.960
60	0.512	113	1.034	166	1.832	219	3.997
61	0.516	114	1.044	167	1.919	220	4.013
62	0.519	115	1.059	168	1.972	221	4.035
63	0.523	116	1.075	169	2.013	222	4.038
64	0.529	117	1.080	170	2.100	223	4.050
65	0.533	118	1.080	171	2.200	224	4.066
66	0.535	119	1.081	172	2.251	225	4.070
67	0.540	120	1.091	173	2.270	226	4.072
68	0.551	121	1.096	174	2.301	227	4.072
69	0.563	122	1.111	175	2.318	228	4.073
70	0.575	123	1.122	176	2.335	229	4.073
71	0.588	124	1.135	177	2.349	230	4.073
72	0.600	125	1.138	178	2.387	231	4.073
73	0.603	126	1.139	179	2.423	232	4.074
74	0.604	127	1.139	180	2.462	233	4.074
75	0.613	128	1.139	181	2.503	234	4.075
76	0.624	129	1.139	182	2.545	235	4.075
77	0.646	130	1.139	183	2.586	236	4.076
78	0.651	131	1.139	184	2.627	237	4.076
79	0.659	132	1.139	185	2.673	238	4.076
80	0.673	133	1.139	186	2.749	239	4.076
81	0.696	134	1.139	187	2.804		
82	0.706	135	1.139	188	2.851		

TABLE 3 (Continued)

FAST-PASS EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(b) Motor vehicles having composite oxides of nitrogen emission limitations in Table 1 of at least 2.5 grams/mile but less than 3.0 grams/mile.

<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)
30	0.262	83	0.883	136	1.616	189	3.821
31	0.275	84	0.894	137	1.631	190	3.870
32	0.301	85	0.902	138	1.643	191	3.892
33	0.317	86	0.907	139	1.656	192	3.914
34	0.327	87	0.910	140	1.673	193	3.955
35	0.330	88	0.912	141	1.703	194	3.997
36	0.332	89	0.913	142	1.739	195	4.035
37	0.334	90	0.914	143	1.767	196	4.089
38	0.336	91	0.915	144	1.774	197	4.146
39	0.337	92	0.916	145	1.785	198	4.206
40	0.354	93	0.917	146	1.806	199	4.243
41	0.366	94	0.918	147	1.830	200	4.295
42	0.410	95	0.919	148	1.844	201	4.351
43	0.414	96	0.920	149	1.845	202	4.398
44	0.438	97	0.921	150	1.846	203	4.410
45	0.477	98	0.922	151	1.852	204	4.419
46	0.506	99	0.924	152	1.868	205	4.426
47	0.518	100	0.929	153	1.877	206	4.429
48	0.522	101	0.941	154	1.879	207	4.453
49	0.526	102	0.970	155	1.886	208	4.486
50	0.554	103	1.027	156	1.900	209	4.542
51	0.574	104	1.093	157	1.910	210	4.598
52	0.587	105	1.155	158	1.936	211	4.638
53	0.601	106	1.234	159	1.954	212	4.715
54	0.615	107	1.275	160	1.986	213	4.774
55	0.629	108	1.305	161	2.050	214	4.829
56	0.643	109	1.320	162	2.131	215	4.872
57	0.667	110	1.332	163	2.235	216	4.931
58	0.678	111	1.346	164	2.320	217	4.981
59	0.683	112	1.358	165	2.395	218	5.017
60	0.686	113	1.378	166	2.488	219	5.029
61	0.693	114	1.406	167	2.563	220	5.033
62	0.699	115	1.426	168	2.645	221	5.037
63	0.703	116	1.438	169	2.746	222	5.047
64	0.707	117	1.448	170	2.778	223	5.057
65	0.711	118	1.460	171	2.792	224	5.061
66	0.716	119	1.462	172	2.810	225	5.062
67	0.721	120	1.467	173	2.847	226	5.063
68	0.726	121	1.476	174	2.874	227	5.063
69	0.742	122	1.494	175	2.905	228	5.063
70	0.759	123	1.505	176	2.950	229	5.063
71	0.773	124	1.517	177	3.001	230	5.064
72	0.784	125	1.546	178	3.047	231	5.065
73	0.790	126	1.569	179	3.104	232	5.066
74	0.794	127	1.586	180	3.173	233	5.067
75	0.799	128	1.596	181	3.238	234	5.068
76	0.809	129	1.603	182	3.302	235	5.069
77	0.821	130	1.605	183	3.372	236	5.070
78	0.833	131	1.606	184	3.452	237	5.070
79	0.839	132	1.607	185	3.545	238	5.070
80	0.844	133	1.607	186	3.648	239	5.070
81	0.857	134	1.608	187	3.701		
82	0.870	135	1.614	188	3.759		

TABLE 3 (Continued)

FAST-PASS EMISSION LIMITATIONS FOR THE TRANSIENT EMISSION TEST

(c) Motor vehicles having composite oxides of nitrogen emission limitations in Table 1 of 3.0 grams/mile or greater.

<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)	<u>Second</u>	<u>Com-</u> <u>posite</u> (grams)
30	0.419	83	1.277	136	2.168	189	4.625
31	0.425	84	1.288	137	2.171	190	4.696
32	0.431	85	1.310	138	2.186	191	4.731
33	0.449	86	1.319	139	2.235	192	4.780
34	0.476	87	1.320	140	2.298	193	4.837
35	0.497	88	1.337	141	2.333	194	4.876
36	0.515	89	1.348	142	2.373	195	4.928
37	0.516	90	1.361	143	2.406	196	4.972
38	0.519	91	1.366	144	2.416	197	5.025
39	0.527	92	1.369	145	2.420	198	5.104
40	0.542	93	1.373	146	2.424	199	5.189
41	0.560	94	1.375	147	2.435	200	5.275
42	0.598	95	1.377	148	2.455	201	5.336
43	0.616	96	1.379	149	2.471	202	5.366
44	0.645	97	1.381	150	2.484	203	5.387
45	0.670	98	1.383	151	2.495	204	5.427
46	0.691	99	1.385	152	2.509	205	5.444
47	0.716	100	1.399	153	2.522	206	5.447
48	0.735	101	1.405	154	2.533	207	5.477
49	0.765	102	1.466	155	2.541	208	5.520
50	0.802	103	1.485	156	2.552	209	5.560
51	0.836	104	1.546	157	2.589	210	5.603
52	0.868	105	1.623	158	2.631	211	5.657
53	0.890	106	1.699	159	2.704	212	5.698
54	0.918	107	1.760	160	2.758	213	5.762
55	0.936	108	1.788	161	2.802	214	5.836
56	0.947	109	1.798	162	2.904	215	5.944
57	0.958	110	1.842	163	2.960	216	6.008
58	0.970	111	1.864	164	3.027	217	6.040
59	0.982	112	1.888	165	3.127	218	6.072
60	0.994	113	1.905	166	3.187	219	6.089
61	1.019	114	1.920	167	3.306	220	6.101
62	1.042	115	1.926	168	3.384	221	6.118
63	1.049	116	1.939	169	3.467	222	6.126
64	1.058	117	1.958	170	3.565	223	6.139
65	1.062	118	1.972	171	3.640	224	6.145
66	1.064	119	1.981	172	3.718	225	6.148
67	1.070	120	1.987	173	3.781	226	6.150
68	1.077	121	1.991	174	3.827	227	6.151
69	1.085	122	1.996	175	3.852	228	6.152
70	1.092	123	2.012	176	3.903	229	6.153
71	1.101	124	2.040	177	3.930	230	6.154
72	1.111	125	2.060	178	3.970	231	6.156
73	1.121	126	2.069	179	4.015	232	6.157
74	1.131	127	2.092	180	4.074	233	6.159
75	1.141	128	2.114	181	4.159	234	6.160
76	1.159	129	2.132	182	4.230	235	6.162
77	1.164	130	2.144	183	4.286	236	6.163
78	1.186	131	2.152	184	4.334	237	6.164
79	1.221	132	2.157	185	4.388	238	6.166
80	1.260	133	2.160	186	4.447	239	6.168
81	1.268	134	2.163	187	4.505		
82	1.272	135	2.165	188	4.561		

TABLE 4

FAST-PASS MINIMUM FLOW FOR THE EVAPORATIVE SYSTEM PURGE TEST
OR ANY ALTERNATIVE EVAPORATIVE SYSTEM PURGE TEST

<u>Second</u>	Purge <u>Level</u> (liters)	<u>Second</u>	Purge <u>Level</u> (liters)	<u>Second</u>	Purge <u>Level</u> (liters)	<u>Second</u>	Purge <u>Level</u> (liters)
30	0.14	83	0.33	136	0.54	189	0.72
31	0.14	84	0.34	137	0.54	190	0.73
32	0.15	85	0.34	138	0.54	191	0.73
33	0.15	86	0.34	139	0.55	192	0.74
34	0.16	87	0.35	140	0.55	193	0.74
35	0.16	88	0.35	141	0.56	194	0.74
36	0.16	89	0.35	142	0.56	195	0.75
37	0.17	90	0.36	143	0.56	196	0.76
38	0.18	91	0.36	144	0.56	197	0.76
39	0.18	92	0.37	145	0.57	198	0.76
40	0.19	93	0.37	146	0.57	199	0.76
41	0.19	94	0.37	147	0.58	200	0.77
42	0.19	95	0.38	148	0.58	201	0.77
43	0.20	96	0.38	149	0.59	202	0.77
44	0.20	97	0.39	150	0.59	203	0.78
45	0.20	98	0.39	151	0.59	204	0.79
46	0.21	99	0.39	152	0.59	205	0.79
47	0.22	100	0.40	153	0.59	206	0.80
48	0.22	101	0.40	154	0.59	207	0.81
49	0.22	102	0.40	155	0.60	208	0.81
50	0.23	103	0.41	156	0.60	209	0.82
51	0.24	104	0.41	157	0.61	210	0.83
52	0.24	105	0.41	158	0.61	211	0.83
53	0.24	106	0.42	159	0.61	212	0.84
54	0.24	107	0.42	160	0.61	213	0.85
55	0.24	108	0.43	161	0.62	214	0.85
56	0.24	109	0.43	162	0.62	215	0.85
57	0.24	110	0.43	163	0.63	216	0.86
58	0.25	111	0.44	164	0.63	217	0.86
59	0.25	112	0.44	165	0.64	218	0.87
60	0.25	113	0.44	166	0.64	219	0.87
61	0.26	114	0.44	167	0.64	220	0.88
62	0.26	115	0.45	168	0.65	221	0.88
63	0.26	116	0.46	169	0.65	222	0.88
64	0.27	117	0.46	170	0.66	223	0.89
65	0.27	118	0.47	171	0.66	224	0.90
66	0.27	119	0.47	172	0.67	225	0.90
67	0.28	120	0.47	173	0.67	226	0.91
68	0.28	121	0.48	174	0.68	227	0.91
69	0.29	122	0.48	175	0.68	228	0.92
70	0.29	123	0.48	176	0.68	229	0.92
71	0.29	124	0.49	177	0.68	230	0.92
72	0.29	125	0.49	178	0.68	231	0.92
73	0.30	126	0.50	179	0.68	232	0.93
74	0.30	127	0.50	180	0.68	233	0.93
75	0.30	128	0.50	181	0.68	234	0.93
76	0.31	129	0.50	182	0.68	235	0.93
77	0.31	130	0.51	183	0.68	236	0.94
78	0.32	131	0.52	184	0.68	237	0.94
79	0.32	132	0.52	185	0.68	238	0.94
80	0.32	133	0.52	186	0.69	239	0.94
81	0.32	134	0.53	187	0.70		
82	0.33	135	0.53	188	0.72		

SECTION 5. NR 485.07 (title), (1), (2) and (3)(a) are amended to read:

NR 485.07 (title) INSPECTION REQUIREMENT FOR MOTOR VEHICLE
TAMPERING.

(1) APPLICABILITY. ~~Any~~ This section applies to any motor vehicle which is subject to the maintenance inspection test under s. 110.20(6), Stats., shall also be subject to selection for an air pollution control equipment tampering inspection under s. 110.20(6)(b), Stats., or which is inspected for tampering of air pollution control equipment. ~~The total number of vehicles selected annually for tampering inspections shall be a minimum of 5% and a maximum of 100% of the vehicles subject to inspection under s. 110.20(6), Stats. Unless 100% of the vehicles subject to inspection are selected for inspection by means of an ongoing schedule that guarantees inspection of each vehicle at least once every 3 years, then selection for tampering inspections shall be made by the DOT or its designee on a random basis in a manner preapproved by the department.~~

(2) RECORDS AND COMPLIANCE. DOT or its designee shall maintain a record of vehicles failing the tampering inspection conducted under either s. 110.20(6)(b), Stats., or any other enforcement mechanism. DOT may not register or renew registration of a failed vehicle until evidence of repair, replacement or restoration of the failed or missing parts is provided to DOT or its designee, and DOT or its designee reinspect the vehicle for the failed or missing parts.

(3)(a) Full tampering inspections shall consist of a visual check for the presence and proper connection of the following air pollution control equipment: the positive crankcase ventilation (PCV) valve and connections; the evaporative emissions control canister; the exhaust system catalytic converter and oxygen sensor; the exhaust gas recirculation (EGR) assembly; the air pump, belts and hoses or the air injector assembly; the fuel inlet restricter; a properly seated gas tank fill cap; and the thermostatic air cleaner/filter assembly. A vehicle

shall fail the tampering inspection if this check indicates any evidence of tampering.

SECTION 6. NR 485.07(3)(b) is renumbered 485.07(3)(c) and 485.07(3)(c)(intro.), as renumbered, is amended to read:

NR 485.07(3)(c)(intro.) Full tampering inspections ~~shall~~ may also include a test for the presence of lead deposits in the tailpipe if the vehicle is required to use unleaded gasoline. Evidence of the use of leaded fuel in vehicles requiring the use of unleaded fuel as shown by the presence of lead in the tailpipe, the presence of leaded fuel in the gas tank or evidence of current or previous tampering with the fuel inlet restricter shall constitute tampering with the catalytic converter and the exhaust oxygen sensor if the vehicle originally had that equipment. When evidence of fuel inlet tampering is found, and a tailpipe lead test indicates the absence of lead deposits, DOT or its designee may waive the requirement to repair, replace, or restore the catalytic converter and oxygen sensor equipment, if:

SECTION 7. NR 485.07(3)(c) is repealed.

SECTION 8. NR 485.07(3)(b) is created to read:

NR 485.07(3)(b) Full tampering inspections shall also include a visual check of the status and operation of any emission service indicator light which has been installed on the motor vehicle by the manufacturer prior to sale. A vehicle shall fail the tampering inspection if the status of this light indicates an emission malfunction or if the light is not operational.

SECTION 9. NR 485.07(4) is repealed and recreated to read:

NR 485.07(4) SUBSTITUTE PROCEDURE. Upon written department approval granted to DOT, a partial tampering inspection procedure may be

substituted for the full inspection procedure in sub. (3), provided that use of the substitute procedure maintains the inspection program effectiveness in terms of adequate pollution reduction and adequate identification and repair of tampered and misfueled vehicles and improperly maintained emission control equipment.

SECTION 10. NR 485.07(5) is amended to read:

NR 485.07(5) PROCEDURE REVIEW. The department shall review the tampering inspection procedure in effect ~~at least once after the first 15 months of the DOT inspection contract which is in effect on the effective date of this section and prior to each subsequent DOT inspection contract or contract extension.~~ Upon such review, the department may withdraw or alter any substitute procedure approved under sub. (4).

The foregoing rule was approved and adopted by the State of Wisconsin Natural Resources Board on August 18, 1995.

The rule shall take effect the first day of the month following publication in the Wisconsin administrative register as provided in s. 227.22(2)(intro.), Stats.

Dated at Madison, Wisconsin

October 13, 1995

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

By

George E. Meyer

George E. Meyer, Secretary

(SEAL)