REV. 1/77

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STATE OF CONNECTICUT
REGULATION

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OF

NAME OF AGENCY

Department of Environmental Protection

Concerning

SUBJECT MATTER OF REGULATION

Abatement of Air Pollution-- Motor Vehicle Emission Standards

ION 1

ORIGINAL

Section 22a-174-27 of the Regulations of Connecticut State Agencies is amended to read as follows:

Sec. 22a-174-27. [Exhaust Emission] EMISSION standards for periodic motor vehicle inspection and maintenance.

(a) APPLICABILITY.

THIS SECTION SHALL APPLY TO ANY OWNER OR OPERATOR OF A 1968 AND LATER MODEL YEAR MOTOR VEHICLE. THIS SECTION SHALL NOT APPLY TO MOTOR VEHICLES WHICH ARE EXEMPT PURSUANT TO CONNECTICUT GENERAL STATUTES SECTION 14-164c (c).

(b) [Abbreviations:] DEFINITIONS. FOR PURPOSES OF THIS SECTION THE DEFINITIONS CONTAINED IN SUBDIVISIONS (1) THROUGH (16) SHALL APPLY.

[(i)]

(1) "CO" means carbon monoxide;

[(ii)]

(2) "HC" means hydrocarbon;

(3) "COMPOSITE MOTOR VEHICLE" OR "COMPO" MEANS A VEHICLE WHICH IS CONSTRUCTED FROM THE COMPONENT PARTS OF TWO OR MORE MOTOR VEHICLES OF DIFFERENT MODEL YEAR OR VEHICLE TYPE;

(4) "G/MI" MEANS GRAMS PER MILE;

(5) "GROSS VEHICLE WEIGHT RATING" OR "GVWR" MEANS THE VALUE SPECIFIED BY THE MANUFACTURER AS THE MAXIMUM LOADED WEIGHT OF A SINGLE OR A COMBINATION (ARTICULATED) VEHICLE, OR ITS REGISTERED GROSS WEIGHT, WHICHEVER IS GREATER. THE GVWR OF A COMBINATION (ARTICULATED) VEHICLE COMMONLY REFERRED TO AS THE "GROSS COMBINATION WEIGHT RATING" OR GCWR IS THE GVWR OF THE POWER UNIT PLUS THE GVWR OF THE TOWED UNIT OR UNITS;

(6) "ENHANCED VEHICLE INSPECTION AND MAINTENANCE PROGRAM" MEANS A COMPREHENSIVE VEHICLE EMISSIONS INSPECTION AND MAINTENANCE (I/M) PROGRAM REQUIRED PURSUANT TO 42 U.S.C. SECTION 7511a (c)(3);

(7) "IDLE TEST PROCEDURE WITH LOADED PRECONDITIONING" MEANS AN ANALYSIS OF EXHAUST GAS CONCENTRATION, BY PERCENT CO AND HC, IN ACCORDANCE WITH "RECOMMENDED I/M SHORT TEST PROCEDURES FOR THE 1990'S: SIX ALTERNATIVES" SECTION 4, EPA-AA-TSS-I/M-90-3 (JANUARY 1991);

(8) "LIGHT-DUTY TRUCK" OR "LDT" MEANS A MOTOR VEHICLE RATED AT 10,000 LBS. GVWR OR LESS AND IS DESIGNED:

(A) TO TRANSPORT PROPERTY OR MORE THAN TEN (10) PERSONS; OR

(B) WITH FEATURES ENABLING OFF-STREET OR OFF-HIGHWAY OPERATION AND USE;

(9) "LIGHT-DUTY VEHICLE" OR "LDV" MEANS A MOTOR VEHICLE THAT IS DESIGNED:

(A) TO CARRY NOT MORE THAN TEN (10) PERSONS, INCLUDING THE OPERATOR; AND

(B) TO TRANSPORT PERSONS AND THEIR PROPERTY WITH AT LEAST FIFTY PERCENT OF THE TOTAL AREA ENCLOSED BY THE OUTERMOST BODY CONTOUR LINES, EXCLUDING THE AREA ENCLOSING THE ENGINE;

(10) "LOADED VEHICLE WEIGHT" OR "LVW" MEANS VEHICLE CURB WEIGHT PLUS THREE HUNDRED POUNDS (300 LBS.);

(11) "NOX" MEANS OXIDES OF NITROGEN;

[(iii)]

(12) "ppm" means parts per million by volume;

(13) "THC" MEANS TOTAL HYDROCARBONS;

(14) "TRANSIENT EMISSIONS TEST" MEANS ANY TESTING METHOD APPROVED BY THE ADMINISTRATOR THAT MEASURES THE EMISSIONS OF ANY COMBINATION OF THC, CO AND NOX, IN GRAMS PER MILE (G/MI), DURING ACCELERATION AND DECELERATION OF A VEHICLE UNDERGOING AN ENHANCED VEHICLE INSPECTION;

(15) "VEHICLE CURB WEIGHT" RETAINS THAT DEFINITION PROVIDED IN 40 CFR SECTION 86.082-2; AND

[(iv)]

(16) "Vol. %" means percent by volume.

[(b)] (c) **[Exhaust] Emission standards.** [Except as provided in subsection (c), the Commissioner defines the] THE following [exhaust] emission standards [for] APPLY TO vehicles inspected IN CALENDAR YEAR 1994 [under] PURSUANT TO the provisions of Chapter 246a of the Connecticut General Statutes:

Gross Vehicle Weight

	Less Than 6,000 Pounds		6,000-8,500 Pounds		8,501-10,000 Pounds	
Model Year	HC (PPM)	CO (Vol. %)	HC (PPM)	CO (Vol. %)	HC (PPM)	CO (Vol. %)
1968-1969	750	7.5	850	7.0	850	7.0
1970	650	7.0	700	5.5	700	5.5
1971	650	6.0	700	5.5	700	5.5
1972	575	6.0	700	5.5	700	5.5
1973	425	6.0	700	5.5	700	5.5

1974	425	6.0	500	4.0	500	4.0
1975-78	300	3.0	500	4.0	500	4.0
1979	300	3.0	300	3.0	300	3.0
1980	275	2.5	275	2.5	300	3.0
1981 and later	220	1.2	220	1.2	300	3.0

[(c) Exhaust emission standards for 1983. The Commissioner defines the following exhaust emission standards for vehicles inspected in 1983.

Gross Vehicle Weight

	Less Than 6,000 Pounds		6,000-8,500 Pounds		8,501-10,000 Pounds	
Model Year	HC (PPM)	CO (Vol. %)	HC (PPM)	CO (Vol. %)	HC (PPM)	CO (Vol. %)
1968-1969	950	9.5	1,050	8.5	1,275	10.5
1970	800	9.0	875	7.0	1,050	8.0
1971	800	7.5	875	7.0	1,050	8.0
1972	725	7.5	875	7.0	1,050	8.0
1973	525	7.5	875	7.0	1,050	8.0
1974	525	7.5	625	5.0	750	6.0
1975-78	375	4.0	625	5.0	750	6.0
1979	375	4.0	375	4.0	450	4.5
1980	350	3.0	350	3.0	450	4.5
1981 and later	275	1.5	275	1.5	450	4.5

]

(d) BETWEEN JANUARY 1, 1995 AND DECEMBER 31, 1996, INCLUSIVE, THE EMISSION STANDARDS CONTAINED IN SUBDIVISIONS (1) THROUGH (4) SHALL APPLY TO ANY VEHICLE INSPECTED PURSUANT TO THE PROVISIONS OF CHAPTER 246a OF THE CONNECTICUT GENERAL STATUTES.

(1) FOR VEHICLES OF MODEL YEARS 1968 THROUGH 1996, INCLUSIVE, MAXIMUM ALLOWABLE EMISSIONS FOR ANY IDLE EXHAUST EMISSION TEST SHALL BE:

VEHICLE MODEL YEAR	CO (VOL. %)	THC (PPM)
1968-69	5.00	500
1970	4.75	475
1971	4.40	450
1972	4.25	425
1973	4.00	390
1974	3.80	350

1975	3.00	300
1976	2.80	300
1977	2.70	300
1978	2.40	275
1979	2.10	250
1980	2.00	225
1981	1.20	200
1982	1.20	200
1983	1.00	175
1984	1.00	150
1985	1.00	150
1986	1.00	150
1987	1.00	150
1988-96	1.00	125

(2) FOR VEHICLES OF MODEL YEARS 1981 THROUGH 1996, MAXIMUM ALLOWABLE EMISSIONS FOR ANY TRANSIENT EXHAUST EMISSIONS TEST SHALL BE:

LDV

VEHICLE MODEL YEAR	THC (G/MI)	CO (G/MI)	NOX (G/MI)
1981-1982	2.00	60.0	3.00
1983-1990	2.00	30.0	3.00
1991-1995	1.20	20.0	2.50
1996 AND LATER	0.80	15.0	2.00

LDT(1)
LESS THAN
6,000 POUNDS GVWR

VEHICLE MODEL YEAR	THC (G/MI)	CO (G/MI)	NOX (G/MI)
1981-1983	7.50	100.0	7.00
1984-1987	3.20	80.0	7.00
1988-1990	3.20	80.0	3.50
1991-1995	2.40	60.0	3.00
1996 AND LATER			
<= 3750 LVW	0.80	15.0	2.00
> 3750 LVW	1.00	20.0	2.50

LDT(2)
6,000-8,500
POUNDS GVWR

VEHICLE MODEL YEAR	THC (G/MI)	CO (G/MI)	NOX (G/MI)
1981-1983	7.50	100.0	7.00
1984-1987	3.20	80.0	7.00
1988-1990	3.20	80.0	5.00
1991-1995	2.40	60.0	4.00
1996 AND LATER			
<= 5750 LVW	1.00	20.0	2.50
> 5750 LVW	2.40	60.0	4.00

LDT(3)
8,501-10,000
POUNDS GVWR

VEHICLE MODEL YEAR	THC (G/MI)	CO (G/MI)	NOX (G/MI)
1981-1984	6.00	100.0	8.00
1985-1986	5.00	75.0	8.00
1987-1990	3.00	60.0	6.00
1991-1997	3.00	60.0	6.00

(3) EVAPORATIVE SYSTEM TEST STANDARDS. FOR VEHICLES OF MODEL YEARS 1981 THROUGH 1996, EVAPORATIVE SYSTEM FUNCTIONAL TEST STANDARDS SHALL BE:

(A) EVAPORATIVE SYSTEM INTEGRITY (PRESSURE) TEST. AN EVAPORATIVE SYSTEM PRESSURE OF AT LEAST EIGHT (8) INCHES OF WATER SHALL BE MAINTAINED FOR TWO (2) MINUTES FOLLOWING SYSTEM PRESSURIZATION TO 14.0 +/- 0.5 INCHES OF WATER; AND

(B) EVAPORATIVE CANISTER TRANSIENT PURGE TEST. A TOTAL PURGE SYSTEM FLOW OF AT LEAST ONE (1) LITER SHALL BE OBSERVED OVER THE COURSE OF THE TRANSIENT TEST.

(4) MAXIMUM ALLOWABLE VISIBLE EMISSIONS FOR DIESEL POWERED LDVS AND LDTS OF MODEL YEARS 1968 AND LATER, SHALL BE 20% PARTICULATE OPACITY AS DETERMINED BY ANY OPACITY METER.

(e) EFFECTIVE JANUARY 1, 1997, THE EMISSION STANDARDS CONTAINED IN SUBDIVISIONS (1) THROUGH (4) SHALL APPLY TO ANY VEHICLE INSPECTED PURSUANT TO THE PROVISIONS OF CHAPTER 246a OF THE CONNECTICUT GENERAL STATUTES.

(1) FOR VEHICLES OF MODEL YEARS 1968 THROUGH 1980, INCLUSIVE, MAXIMUM ALLOWABLE EMISSIONS FOR ANY IDLE EXHAUST EMISSION TEST SHALL BE:

VEHICLE MODEL YEAR	CO (VOL. %)	THC (PPM)
1968-69	5.0	500
1970	4.75	475
1971	4.4	450
1972	4.25	425
1973	4.0	390
1974	3.8	350
1975	3.0	300
1976	2.8	300
1977	2.7	300
1978	2.4	275
1979	2.1	250
1980	2.0	225

(2) FOR VEHICLES OF MODEL YEARS 1981 AND LATER, MAXIMUM ALLOWABLE EMISSIONS FOR ANY TRANSIENT EXHAUST EMISSIONS TEST SHALL BE:

LDV

VEHICLE MODEL YEAR	THC (G/MI)	CO (G/MI)	NOX (G/MI)
1981-1982	0.80	30.0	2.00
1983-1995	0.80	15.0	2.00
1996 AND LATER	0.60	10.0	1.50

LDT(1)
LESS THAN
6,000 POUNDS GVWR

VEHICLE MODEL YEAR	THC (G/MI)	CO (G/MI)	NOX (G/MI)
1981-1983	3.40	70.0	4.50
1984-1987	1.60	40.0	4.50
1988-1995	1.60	40.0	2.50
1996 AND LATER			
<= 3750 LVW	0.60	10.0	1.50
> 3750 LVW	0.80	13.0	1.80

LDT(2)
6,000-8,500
POUNDS GVWR

VEHICLE MODEL YEAR	THC (G/MI)	CO (G/MI)	NOX (G/MI)
1981-1983	3.40	70.0	4.50
1984-1987	1.60	40.0	4.50
1988-1995	1.60	40.0	3.50
1996 AND LATER			
<= 5750 LVW	0.80	13.0	1.80
> 5750 LVW	0.80	15.0	2.00

LDT(3)
8,501-10,000
POUNDS GVWR

VEHICLE MODEL YEAR	THC (G/MI)	CO (G/MI)	NOX (G/MI)
1981-1984	5.00	75.0	6.00
1985-1986	3.00	50.0	6.00
1987-1990	2.00	40.0	6.00
1991-1997	2.00	40.0	5.00
1998 AND LATER	2.00	30.0	4.00

(3) EVAPORATIVE SYSTEM TEST STANDARDS. FOR VEHICLES OF MODEL YEARS 1981 AND LATER, EVAPORATIVE SYSTEM FUNCTIONAL TEST STANDARDS SHALL BE:

(A) EVAPORATIVE SYSTEM INTEGRITY (PRESSURE) TEST. AN EVAPORATIVE SYSTEM PRESSURE OF AT LEAST EIGHT (8) INCHES OF WATER SHALL BE MAINTAINED FOR TWO (2) MINUTES FOLLOWING SYSTEM PRESSURIZATION TO 14.0 +/- 0.5 INCHES OF WATER; AND

(B) EVAPORATIVE CANISTER TRANSIENT PURGE TEST. A TOTAL PURGE SYSTEM FLOW OF AT LEAST ONE (1) LITER SHALL BE OBSERVED OVER THE COURSE OF THE TRANSIENT TEST.

(4) MAXIMUM ALLOWABLE VISIBLE EMISSIONS FOR DIESEL POWERED LDVS AND LDTS OF MODEL YEARS 1968 AND LATER, SHALL BE 20% PARTICULATE OPACITY AS DETERMINED BY ANY OPACITY METER.

STATE OF CONNECTICUT
REGULATION
OF

NAME OF AGENCY
Department of Environmental Protection

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[(d)] (f) UNDETERMINED GVWR. Where the Gross Vehicle Weight RATING cannot be determined, the emission STANDARD [standards for vehicles of gross vehicle weight of less than 6,000 pounds shall apply] FOR LDVS SHALL APPLY.

[(e)] (g) COMPOSITE VEHICLES. Where the vehicle is designated "COMPO" in the "Make" field of the registration certificate, the emission standards for Model Year 1968 shall apply.

(h) ALTERATION OR REPLACEMENT OF VEHICLE ENGINE.

(1) ANY VEHICLE WITH AN ENGINE OTHER THAN THE ONE ORIGINALLY INSTALLED BY THE MANUFACTURER OR AN IDENTICAL REPLACEMENT OF SUCH ENGINE SHALL BE SUBJECT TO THE TEST PROCEDURES AND STANDARDS FOR THE CHASSIS TYPE AND MODEL YEAR OF THE VEHICLE.

(2) ANY VEHICLE THAT IS RE-ENGINEERED FROM AN INTERNAL COMBUSTION GASOLINE ENGINE TO ANOTHER COMBUSTION OR FUEL TYPE, SHALL BE SUBJECT TO THE TEST PROCEDURES AND STANDARDS FOR A GASOLINE POWERED VEHICLE.

STATEMENT OF PURPOSE: To conform the existing regulations relating to periodic motor vehicle emissions standards to the requirements of Public Act 93-312 and section 182 (c)(3) of the 1990 Clean Air Act Amendments.

ERTIFICATION
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it known that the foregoing:

[XX] Regulations [ ] Emergency Regulations

[ ] Adopted [XX] Amended as hereinabove stated [ ] Repealed

y the aforesaid agency pursuant to:

[ ] Section 22a-174 of the General Statutes.

[ ] Section _____ of the General Statutes, as amended by Public Act No. _____ of the _____ Public Acts.

[ ] Public Act No. _____ of the Public Acts.

after publication in the Connecticut Law Journal on Dec. 7, 1993 19___, of the notice of the proposal to:

[ ] Adopt [XX] Amend [ ] Repeal such regulations

(applicable): [XX] And the holding of an advertised public hearing on 7th day of January 19 94

HEREFORE, the foregoing regulations are hereby:

[ ] Adopted [XX] Amended as hereinabove stated [ ] Repealed

ffective:

[XX] When filed with the Secretary of the State.

(OR)

[ ] The _____ day of _____ 19___.

n Witness Whereof:	DATE 3/28/94	SIGNED (Head of Board, Agency or Commission) Robert Moore	OFFICIAL TITLE, DULY AUTHORIZED Deputy Commissioner
roved by the Attorney General as to legal sufficiency accordance with Sec. 4-169, as amended, C.G.S.:		SIGNED [illegible]	OFFICIAL TITLE, DULY AUTHORIZED Assoc. Atty Gen.

4/4/94

[X] Approved

[ ] Disapproved

[ ] Disapproved in part, (Indicate Section Numbers disapproved only)

[ ] Rejected without prejudice.

he Legislative Regulation Review Committee in accordance Sec. 4-170, as amended, of the General Statutes.	DATE 4/19/94	SIGNED (Clerk of the Legislative Regulation Review Committee) [illegible]

certified copies received and filed, and one such copy forwarded to the Commission on Official Legal Publications accordance with Section 4-172, as amended, of the General Statutes.

E April 21, 1994	SIGNED (Secretary of the State) Pauline R. Kezer	BY Peter J. Boulter

INSTRUCTIONS

ne copy of all regulations for adoption, amendment or repeal, except emergency regulations, must be presented to the Attorney eneral for his determination of legal sufficiency. Section 4-169 of the General Statutes.

ce[illegible]een copies of all regulations for adoption, amendment or repeal, except emergency regulations, must be presented to the st[illegible]g Legislative Regulation Review Committee for its approval. Section 4-170 of the General Statutes.

ach regulation must be in the form intended for publication and must include the appropriate regulation section number and ection heading. Section 4-172 of the General Statutes.

ndicate by "(NEW)" in heading if new regulation. Amended regulations must contain new language in capital letters and eleted language in brackets. Section 4-170 of the General Statutes.

RECEIVED

APR 21 1994

RECORDS & LEGISLATIVE SERVICES
SECRETARY OF THE STATE