3/26/98

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STATE OF CONNECTICUT

REGULATION

OF

NAME OF AGENCY

DEPARTMENT OF ENVIRONMENTAL PROTECTION

concerning

SUBJECT MATTER OF REGULATION

EMISSION STANDARDS FOR PERIODIC MOTOR VEHICLE INSPECTION AND MAINTENANCE

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

Section 22a-174-27. 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 WHICH IS NOT AN ANTIQUE, RARE OR SPECIAL INTEREST MOTOR VEHICLE AS DEFINED IN SECTION 14-1 OF THE GENERAL STATUTES. This section shall not apply to motor vehicles which are exempt pursuant to [Connecticut General Statutes] section 14-164c(c) OF THE GENERAL STATUTES.

(b) Definitions. For purposes of this section the definitions contained in subdivisions (1) through (16) shall apply.

(1) "ASM 2525" OR "ACCELERATION SIMULATION MODE TEST" MEANS AN EMISSIONS TEST PERFORMED AT A STEADY STATE OF TWENTY-FIVE (25) MILES PER HOUR (MPH) AND WHICH UTILIZES A DYNAMOMETER LOAD SET TO SIMULATE 25% OF THE POWER REQUIRED TO ACCELERATE THE PARTICULAR VEHICLE BEING TESTED AT 3.3 MPH/SECOND UNTIL A SPEED OF 25 MPH IS ATTAINED. SUCH TEST SHALL ANALYZE EXHAUST GAS CONCENTRATION, BY PERCENT CO AND PPM OF NO AND HC, AND COMPARE THE TEST RESULTS TO THE MAXIMUM ALLOWABLE EXHAUST EMISSION STANDARDS FOR CO, NO AND HC AS PUBLISHED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY IN SECTION 85.1(a) OF THE "ACCELERATION SIMULATION MODE TEST PROCEDURES, EMISSION STANDARDS, QUALITY CONTROL REQUIREMENTS, AND EQUIPMENT SPECIFICATIONS, TECHNICAL GUIDANCE", EPA-AA-RPSD-IM-96-2 (JULY, 1996) EXCEPT THAT THE WORD "SHOULD" IN SUBDIVISIONS (1) AND (2) OF SECTION 85.1(a) SHALL BE REPLACED WITH THE WORD "SHALL."

(2) "CO" means carbon monoxide;

(3) "CFR" MEANS CODE OF FEDERAL REGULATIONS;

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[(2)] (4) "HC" means hydrocarbon;

[(3)] (5) "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)] (6) "g/mi" means grams per mile;

[(5)] (7) "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)] (8) "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)] (9) "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) OR MORE persons, NOT INCLUDING THE OPERATOR; or

(B) with features enabling off-street or off-highway operation and use;

[(9)] (10) "light-duty vehicle" or "LDV" means a motor vehicle that is designed:

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(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)] (11) "loaded vehicle weight" or "lvw" means vehicle curb weight plus three hundred pounds (300 lbs.);

[(11) "NOx" means oxides of nitrogen;]

(12) "NO" MEANS NITRIC OXIDE;

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

[(13)] (14) "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] IS DEFINED AS in 40 CFR section 86.082-2; and

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

(c) EMISSION STANDARDS. [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,] IDLE EXHAUST EMISSION STANDARDS. MAXIMUM

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[maximum] allowable emissions for any VEHICLE SUBJECT TO AN idle exhaust emission test WITH LOADED PRECONDITIONING ADMINISTERED BY THE COMMISSIONER OF MOTOR VEHICLES OR HIS DESIGNEE 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] AND LATER	1.00	125

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(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)
1981-82	2.00	60.00	3.00
1983-90	2.00	30.00	3.00
1991-96	1.20	20.00	2.5
1996 and later	0.80	15.00	2.00

LDT(1) less than 6,000 pounds GVWR			
Vehicle Model Year	THC (g/mi)	CO (g/mi)	NOx (g/mi)
1981-83	7.50	100.00	7.00
1984-87	3.20	80.00	7.00
1988-90	3.20	80.00	3.50
1991-95	2.40	60.00	3.00
1996 and later <= 3750 lvw > 3750 lvw	 0.80 1.00	 15.00 20.00	 2.00 2.50

LDT(2) 6,000-8,500 pounds GVWR			
Vehicle Model Year	THC (g/mi)	CO (g/mi)	NOx (g/mi)
1981-83	7.50	100.00	7.00

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LDT(2) 6,000-8,500 pounds GVWR			
1984-87	3.20	80.00	7.00
1988-90	3.20	80.00	5.00
1991-95	2.40	60.00	4.00
1996 and later	2.40	60.00	4.00

LDT(3) 8,501-10,000 pounds GVWR			
Vehicle Model Year	THC (g/mi)	CO (g/mi)	NOx (g/mi)
1981-84	6.00	100.00	8.00
1984-86	5.00	75.00	8.00
1987-90	3.00	60.00	6.00
1991-1997	3.00	60.00	6.00

]

ASM 2525 EXHAUST EMISSION STANDARDS. MAXIMUM ALLOWABLE EMISSIONS FOR ANY VEHICLE SUBJECT TO AN ASM 2525 EXHAUST EMISSION TEST ADMINISTERED BY THE COMMISSIONER OF MOTOR VEHICLES OR HIS DESIGNEE SHALL BE AS PUBLISHED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY IN SUBDIVISION (1) OF SECTION 85.1(a) OF THE "ACCELERATION SIMULATION MODE TEST PROCEDURES, EMISSION STANDARDS, QUALITY CONTROL REQUIREMENTS, AND EQUIPMENT SPECIFICATIONS, TECHNICAL GUIDANCE" EPA-AA-RPSD-IM-96-2 (JULY, 1996). AFTER DECEMBER 31, 1999, MAXIMUM ALLOWABLE EMISSIONS FOR ANY VEHICLE SUBJECT TO AN ASM 2525 EXHAUST EMISSION TEST ADMINISTERED BY THE COMMISSIONER OF MOTOR VEHICLES OR HIS DESIGNEE SHALL BE AS PUBLISHED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY IN SUBDIVISION (2) OF SECTION 85.1(a) OF THE "ACCELERATION SIMULATION MODE TEST PROCEDURES,

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EMISSION STANDARDS, QUALITY CONTROL REQUIREMENTS, AND EQUIPMENT SPECIFICATIONS, TECHNICAL GUIDANCE" EPA-AA-RPSD-IM-96-2 (JULY, 1996).

(3) [Evaporative system test standards. Evaporative system functional test standards shall be:

(A) Evaporative system integrity (Pressure) test. For vehicles of model years 1971 through 1996, 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. For vehicles of model years 1981 through 1996, a total purge system flow of at least one (1) liter shall be observed over the course of the transient test.

(4)] VISIBLE EMISSION STANDARDS. 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.

(d) [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	5.00	500
1970	4.75	475
1971	4.40	450
1972	4.25	425

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Vehicle Model Year	CO (Vol. %)	THC (ppm)
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

(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)
1981-82	0.80	30.00	2.00
1983-95	0.80	15.00	2.00
1996 and later	0.60	10.00	1.50

LDT(1) less than 6,000 pounds GVWR			
Vehicle Model Year	THC (g/mi)	CO (g/mi)	NOx (G/mi)
1981-83	3.40	70.00	4.50
1984-87	1.60	40.00	4.50

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LDT(1) less than 6,000 pounds GVWR			
1988-95	1.60	40.00	2.50
1996 and later <= 3750 lvw > 3750 lvw	 0.60 0.80	 10.00 13.00	 1.50 1.80

LDT(2) 6,000-8,500 pounds GVWR			
Vehicle Model Year	THC (g/mi)	CO (g/mi)	NOx (g/mi)
1981-83	3.40	70.00	4.50
1984-87	1.60	40.00	4.50
1988-95	1.60	40.00	3.50
1996 and later	0.80	15.00	2.00

LDT(3) 8,501-10,000 pounds GVWR			
Vehicle Model Year	THC (g/mi)	CO (g/mi)	NOx (g/mi)
1981-84	5.00	75.00	6.00
1985-86	3.00	50.00	6.00
1987-90	2.00	40.00	6.00
1991-97	2.00	40.00	5.00
1998 and later	2.00	30.00	4.00

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(3) Evaporative system test standards. Evaporative system functional test standards shall be:

(A) Evaporative system integrity (Pressure) test. For vehicles of model years 1971 and later, 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. For vehicles of model years 1981 and later, 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)] Undetermined GVWR. Where the gross vehicle weight rating cannot be determined, the emission standard for LDVs shall apply.

[(f)] (e) 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.

[(g)] (f) 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.

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Section 1

STATEMENT OF PURPOSE: To adopt, by reference, maximum allowable emission standards for the ASM 2525 emissions test as necessary to implement the enhanced inspection and maintenance program pursuant to the federal Clean Air Act.

CERTIFICATION
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P-4977

Be it known that the foregoing:

● Regulations ☐ Emergency Regulations

Are:

☐ Adopted ☒ Amended as hereinabove stated ☐ Repealed

By the aforesaid agency pursuant to:

☒ Section 22a-6 and 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 December 23 19 97, of the notice of the proposal to:

☐ Adopt ☒ Amend ☐ Repeal such regulations

(If applicable): ☒ And the holding of a public hearing on 23rd day of January 19 98

WHEREFORE, the foregoing regulations are hereby:

☐ Adopted ☒ Amended as hereinabove stated ☐ Repealed

Effective:

☒ When filed with the Secretary of State.
(OR)
☐ The _____ day of _____ 19 ___

In Witness Whereof:	DATE Feb. 21, 1998	SIGNED *(Head of Board, Agency or Commission)*	OFFICIAL TITLE, DULY AUTHORIZED Commissioner
Approved by the Attorney General as to legal sufficiency in accordance with Sec. 4-169, as amended, C.G.S.:		SIGNED	OFFICIAL TITLE, DULY AUTHORIZED Assoc. Atty General

☒ Approved 2/25/98

☐ Disapproved

☐ Disapproved in part, *(Indicate Section Numbers disapproved only)*

☐ Rejected without prejudice.

By the Legislative Regulation Review Committee in accordance with Sec. 4-170, as amended, of the General Statutes.	DATE 3-24-98	SIGNED *(Clerk of the Legislative Regulation Review Committee)* Sandra B. Booth

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

DATE March 26, 1998	SIGNED *(Secretary of the State)* Miles S. Rapoport	BY Peter J. Gartine

INSTRUCTIONS

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

2. Seventeen copies of all regulations for adoption, amendment or repeal, except emergency regulations, must be presented to the standing Legislative Regulation Review Committee for its approval. Section 4-170 of the General Statutes.

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

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

RECEIVED
MAR 26 1998
RECORDS & LEGISLATIVE SERVICES
SECRETARY OF THE STATE

Regulation
of

E-4977

Department of Environmental Protection

CONCERNING

Abatement of Air Pollution Emission Standards for Periodic Motor Vehicle Inspection and Maintenance

Received and filed in the office of the
Secretary of the State

March 26, 1998
Effective Date: March 26, 1998

Approved by the Attorney General

February 25, 1998

Approved by the Legislative Regulation
Review Committee or General Assembly

March 24, 1998

Published in Connecticut Law Journal