NOTICE OF PROPOSED AMENDMENTS

1) <u>Heading of the Part</u>: Mobile Sources

2) <u>Code Citation</u>: 35 Ill. Adm. Code 240

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- 4) Statutory authority: Implementing Section 13C-20 of the Vehicle Emissions Inspection Law of 2005 [625 ILCS 5/13C-20] and authorized by Sections 10, 27, and 28 of the Environmental Protection Act [415 ILCS 5/10, 27, 28]
- A complete description of the subjects and issues involved: This proposal for public comment amends Part 240 to reflect the Vehicle Emissions Inspection Law of 2005 [625 ILCS 5/13C], which replaces and continues the Vehicle Emissions Inspection Law of 1995. Chief provisions of this proposal exempt model year 1995 and older vehicles from inspection, replace the transient loaded mode (IM 240) emissions inspection test with the OBD inspection test as the primary test, and maintain the steady-state idle exhaust gas analysis and evaporative system integrity emissions tests as secondary emissions tests. The proposal also includes clarification, updates, and clean-ups.

NOTICE OF PROPOSED AMENDMENTS

For a more detailed description of this rulemaking, see the Board's December 16, 2010, first-notice opinion and order: Revision of Enhanced Vehicle Inspection and Maintenance (I/M) Regulations: Amendments to 35 Ill. Adm. Code Part 240 (R11-17).

- 6) <u>Published studies or reports, and sources of underlying data, used to compose this rulemaking</u>: The Illinois Environmental Protection Agency filed this proposal and states that its preparation relied upon the following sources:
 - a) Clean Air Act (42 U.S.C. 7401 et seq.)
 - b) Vehicle Emissions Inspection Law of 2005 (625 ILCS 5/13C)
 - c) 40 CFR 51, subpart S (2009)
 - d) 40 CFR 85, subpart W (2009)
 - e) 66 Fed. Reg. 18156-79 (Apr. 5, 2001)
 - f) "Reinventing the Illinois I/M Program, 2005 Clean Air Conference", James Matheny, Illinois Environmental Protection Agency, September 2005.
 - g) "The Road to OBD Only Insights and Changes, I/M Solutions", Stephen W. Thorpe, Illinois Environmental Protection Agency, June 2, 2009.
 - h) "VOC Reduction (TPD) for the Chicago Area from the Pre-'07 I/M Program and the '07-On Program", Sam Long, Illinois Environmental Protection Agency, June 11, 2009.
 - i) "VOC Reduction (TPD) for the Metro-East Area from the Pre-'07 I/M Program and the '07-On Program", Sam Long, Illinois Environmental Protection Agency, October 2010.
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) <u>Does this rulemaking contain an automatic repeal date?</u> No
- 9) <u>Does this rulemaking contain incorporations by reference?</u> No

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- 10) Are there any other proposed rulemakings pending on this Part? No
- 11) <u>Statement of statewide policy objectives</u>: This proposed rulemaking does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b) (2008)].
- 12) <u>Time, place and manner in which interested persons may comment on this proposed</u> <u>rulemaking</u>: The Board will accept written public comment on this proposal. Comments should reference docket R11-19 and be addressed to:

John Therriault
Clerk's Office
Illinois Pollution Control Board
James R. Thompson Center, Suite 11-500
100 W. Randolph St.
Chicago, IL 60601

Address all questions to Timothy Fox at 312-814-6085.

Interested persons may obtain copies of the Board's opinion and order by downloading them from the Board's Web site at www.ipcb.state.il.us or by calling the Clerk's office at 312-814-3620.

- 13) <u>Initial regulatory flexibility analysis</u>:
 - A) Types of small businesses, small municipalities, and not-for-profit corporations affected: The proposal would affect a small business, small municipality, or not-for-profit corporation to the extent that it owned a vehicle subject to emissions inspection.
 - B) Reporting, bookkeeping or other procedures required for compliance: The proposal is not expected to require new reporting, bookkeeping, or other procedures for compliance.
 - C) <u>Types of professional skills necessary for compliance</u>: No professional skills beyond those currently required by the existing state and federal air pollution control requirements are expected to be necessary.

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14) Regulatory Agenda on which this rulemaking was summarized: July 2010

The full text of the Proposed Amendments begins on the next page:

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE B: AIR POLLUTION CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER k: EMISSION STANDARDS AND LIMITATIONS FOR MOBILE SOURCES PART 240 MOBILE SOURCES RECEIVED SUBPART A: DEFINITIONS AND GENERAL PROVISIONS CLERK'S OFFICE Section JAN 20 2011 240.101 Preamble 240.102 Definitions STATE OF ILLINOIS Prohibitions 240.103 Pollution Control Board 240.105 Penalties
240.106 Determination of Violation
240.107 Incorporations by 7 Incorporations by Reference SUBPART B: EMISSIONS Section 240.121 Smoke Emissions
240.122 Diesel Engine Emissions Standards for Locomotives
240.123 Liquid Petroleum Gas Fuel Systems
240.124 Vehicle Exhaust Emission Standards (Repealed) 240.125 Compliance Determination (Repealed) SUBPART C: SMOKE OPACITY STANDARDS AND TEST PROCEDURES FOR DIESEL-POWERED HEAVY DUTY VEHICLES Section 240.140 Applicability Smoke Opacity Standards and Test Procedures for Diesel-Powered Heavy 240.141 Duty Vehicles SUBPART D: STEADY-STATE IDLE MODE TEST EMISSION STANDARDS Section 240.151 Applicability Steady-State Idle Mode Vehicle Exhaust Emission Standards 240.152 240.153 Compliance Determination

SUBPART E: TRANSIENT LOADED MODE TEST EMISSION STANDARDS (Repealed)

Section 240.161 Applicability (Repealed)

240.162 Vehicle Exhaust Emission Scarc-op Scandards (Repealed)

Vehicle Exhaust Emission Final Standards (Repealed)

Tricaion Fast-Pass Standards Vehicle Exhaust Emission Start-Up Standards (Repealed)

240.164240.165 Vehicle Exhaust Emission Fast-Pass Standards (Repealed)

240.165 Compliance Determination (Repealed)

SUBPART F: EVAPORATIVE TEST STANDARDS

Section

w #

Applicability 240.171

240.172 Evaporative System Integrity Test Standards

240.173 Evaporative System Purge Test Standards (Repealed)

SUBPART G: ON-ROAD REMOTE SENSING TEST EMISSION STANDARDS

Section

240.181 Applicability

240.182 On-Road Remote Sensing Emission Standards

240.183 Compliance Determination

SUBPART H: ON-BOARD DIAGNOSTIC TEST STANDARDS

Section

240.191 Applicability

240.192 On-Board Diagnostic Test Standards

240.193 Compliance Determination

240. Appendix ARule APPENDIX A Rule into Section Table 240. Appendix BSection into Rule Table

240. APPENDIX B Section into Rule Table AVehicle

240.TABLE A Vehicle Exhaust Emission Start-Up Standards (Repealed)
240.TableTABLE B Vehicle Exhaust Emission Final Standards (Repealed)
240.TableTABLE C Vehicle Exhaust Emission Fast-Pass Standards (Repealed)

AUTHORITY: Implementing Sections 9 and, 10 and 13 and authorized by Sections 27 and 28 of the Environmental Protection Act [415 ILCS 5/9, 10, 13, and 27, and 28] and Section 13 CBC-20 of the Vehicle Emissions Inspection Law of 200519952005 [625 ILCS 5/13 CBC-20].

SOURCE: Adopted as Chapter 2: Air Pollution, Part VII: Mobile Sources, filed and effective April 14, 1972; codified at 7 Ill. Reg. 13628; amended in R85-25, at 10 Ill. Reg. 11277, effective June 16, 1986; amended in R90-20 at 16 Ill. Reg. 6184, effective April 7, 1992; amended in R94-20 at 18 Ill. Reg. 18013, effective December 12, 1994; amended in R94-19 at 18 Ill. Reg. 18228, effective December 20, 1994; amended in R98-24 at 22 Ill. Reg. 13723, effective July 13, 1998; expedited correction at 22 Ill. Reg. 21120, effective July 13, 1998; amended in R01-12 at 24 Ill. Reg. 19188, effective December 18, 2000; amended in R01-8 at 25 Ill. Reg. 3680, effective February 26, 2001; amended in R02-8 at 25 Ill. Reg. 16379, effective December 18, 2001; amended in R11-19 at 35 Ill. Reg. _______.

BOARD NOTE: This partPart implements the Environmental Protection Act as of July 1, 1994.

NOTE: Capitalization denotes statutory language.

SUBPART A: DEFINITIONS AND GENERAL PROVISIONS

Section 240.102 Definitions

All terms whichthat appear in this Part have the definitions specified in this SectionPartSection, the Vehicle Emissions Inspection Law of 2005 [625 ILCS 5/13C], and 35 Ill. Adm. Code 201 and 211. WhereWhen conflicting definitions occur between this Section and 35 Ill. Adm. Code 201 or 211, the definitions of this Section apply in this Part. "Adjusted loaded vehicle weight ("ALVW") means the value of the vehicle curb weight plus gross vehicle weight rating divided by two.

"Agency" means the Illinois Environmental Protection Agency.

"Diesel engine" means all types of internal-combustion engines in which air is compressed to a temperature sufficiently high to ignite fuel injected directly into the cylinder area.

"Diesel locomotive" means a diesel engine vehicle designed to move cars on a railway.

"Evaporative system integrity test" means a test of a vehicle's evaporative system. The test shall either consist of a leak check of a vehicle's fuel cap with a fuel cap pressure decay tester (fuel cap pressure decay test), a fuel cap leak flow tester (fuel cap leak flow test), or a visual functional check, as applicable.

"Fuel cap" means a device used to seal a vehicle's fuel inlet.

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"Fuel cap leak flow test" means a test which may be performed in accordance with this Part on a vehicle's fuel cap using a fuel cap leak flow tester to determine whether the vehicle complies with the evaporative system emission standards of this Part.

"Fuel cap leak flow tester" means a device used to determine the leak flow integrity of a vehicle's fuel cap by comparing the measured leak flow of the fuel cap with an established fuel cap leak flow standard.

"Fuel cap pressure decay test" means the test performed in accordance with this Part on a vehicle's fuel cap using a fuel cap pressure decay tester to determine whether the vehicle complies with the evaporative system emission standards of this Part.

"Fuel cap pressure decay tester" means a device used to determine the pressure decay integrity of a vehicle's fuel cap by monitoring the pressure behind the fuel cap for a ten second period and comparing the measured pressure decay of the fuel cap to an established fuel cap pressure decay standard.

"Fuel cap visual functional test" means the test performed in accordance with this Part on a vehicle's fuel cap using visual analysis to determine whether the vehicle complies with the evaporative system emission standards of this Part.

"Full power position" means the throttle position at which the engine fuel delivery is at maximum flow. "Gross vehicle weight rating (GVWR)" means the value specified by the manufacturer as the maximum design loaded weight of a single vehicle.

"Heavy duty vehicle" means any motor vehicle rated at more than 8500 pounds GVWR or that has a vehicle curb weight of more than 6000 pounds or that has a basic vehicle frontal area in excess of 45 square feet.

"High idle" means a vehicle operating condition with engine disconnected from an external load (placed in either neutral or park) and operating at speed of 2500 + 300 RPM. "IM240" means the transient mass emissions inspection procedure that the USEPA developed and has been implemented for the use in the Illinois Enhanced Vehicle Inspection and Maintenance Program. 240 refers to the 240 second maximum duration of the driving cycle that the vehicle undergoes as it is

positioned on the dynamometer and essentially driven for the purpose of measuring the mass amount of emissions coming out of the tail pipe. + 300 RPM.

"Idle mode" means that portion of a vehicle emission test procedure conducted with the engine disconnected from an external load and operating at minimum throttle.

"Initial idle mode" means the first of up to two idle mode sampling periods during a steady-state idle mode test, during which exhaust emission measurements are made with the vehicle in "as-received" condition.

"Light duty truck 1" means a motor vehicle rated at 6000 pounds maximum GVWR or less and which has a vehicle frontal area of 45 square feet or less, and which is designed primarily for purposes of transportation of property or is a derivation of such a vehicle, or is designed primarily for transportation of persons and has a capacity of more than 12 persons, or is available with special features enabling off-street or off-highway operation and use.

"Light duty truck 2" means a motor vehicle rated between 6001 and 8500 pounds maximum GVWR and which has a vehicle frontal area of 45 square feet or less, and which is designed primarily for purposes of transportation of property or is a derivation of such a vehicle, or is designed primarily for transportation of persons and has a capacity of more than 12 persons, or is available with special features enabling off-street or off-highway operation and use.

"Light duty vehicle" means a passenger car or passenger car derivative capable of seating 12 passengers or fewer.

"Loaded mode" means that portion of a vehicle emission test procedure conducted with the vehicle positioned and operating under load on a chassis dynamometer.

"Loaded vehicle weight (LVW)" means the vehicle curb weight plus 300 pounds." Measured values means five-second running averages of exhaust emission concentrations sampled at a minimum rate of twice per second.

"Model year" means the year of manufacture of a motor vehicle based upon the annual production period as designated by the manufacturer and indicated on the title and registration of the vehicle. If the manufacturer does not designate a production period for the vehicle, then "model year" means the calendar year of manufacture.

"Motor vehicle" as used in this Part, shall have the same meaning as in Section 1-146 of the Illinois Vehicle Code [625 ILCS 5/1-146].

"Opacity" means the percentage of light transmitted from a source that is prevented from reaching a light detector.

"Preconditioning mode" means a period of steady-state loaded mode or high-idle operation conducted to ensure that the engine and emissions control system components are operating at normal operating temperatures, thus minimizing false failures caused by improper or insufficient warm-up.

"Second-chance idle mode" means the second of two idle mode sampling periods during a steady-state idle mode test, preceded by a preconditioning mode and utilized as a second chance to pass idle exhaust emission standards immediately following an initial idle mode failure.

"Snap-acceleration test" means a test to measure exhaust smoke opacity from heavy-duty diesel powered vehicles in accordance with the SAE J1667 procedure, incorporated by reference at Section 240.107 of this Subpart.

"Steady-state idle test" means a vehicle emission test procedure consisting of an initial idle mode measurement of exhaust emissions followed, if necessary, by a loaded or high idle preconditioning mode and a second-chance idle mode. "Transient loaded mode test" or "IM240 testing" or "transient IM240 loaded mode exhaust emission test procedure" or "transient IM240 test procedure" means a vehicle emissions test run on an inertial and power absorbing dynamometer using USEPA's IM240 driving cycle consisting of accelerations and decelerations simulating on road driving conditions.

"Vehicle curb weight" means the actual vehicle weight plus standard equipment and a full fuel tank.

(Source: Amended at 35 Ill. Reg.____, effective _____)

Section 240.104 Inspection

- a) All motor vehicles subject to inspection pursuant to Section 13CBC-15 of the Vehicle Emissions Inspection Law of 200519952005 [625 ILCS 5/13CBC-15] shall comply with applicable vehicle emission standards contained in Sections 240.152, 240.162, 240.163, 240.172, 240.182, and 240.192 of this Part.
- b) All diesel-powered vehicles subject to inspection pursuant to Section 13-109.1 of the Illinois Vehicle Code [625 ILCS 5/13-109.1] must comply with applicable smoke opacity standards set forth in Section 240.141(a) of this Part.

(Source: Amended at 35 Ill. Reg.____, effective _____)

Section 240.105 Penalties

- a) Any violations of Sections 240.103, 240.121, 240.122, $\frac{\text{orand}}{\text{or}}$ 240.123 of this Part shall be subject to the penalties as set forth in Section 42 of the Act [415 ILCS 5/42].
- b) Any violations of Sections 240.104(b), 240.152, 240.162, 240.163, 240.172, 240.182, orand or 240.192 of this Part shall be subject to the penalties as set forth in Sections 13CBC-55 and 13CBC-60 of the Vehicle Emissions Inspection Law [625 ILCS 5/13CBC-55 and 13CBC-60].
- c) Any violation of Section 240.141(a) of this Part will be subject to penalties as set forth in Section 13-109.1 of the Illinois Vehicle Code [625 ILCS 5/13-109.1].

(Source: Amended at 35 Ill. Reg.____ , effective _____)

Section 240.106 Determination of Violation

a) Any violations of Sections 240.103, 240.121, 240.122, orand or 240.123 of this Part shall be determined by visual observation or by a test procedure employing an opacity measurement system as qualified by 35 Ill. Adm. Code 201, Subpart J.

(Source: Amended at 35 Ill. Reg, effective) Section 240.107 Incorporations by Reference The following materials isoarematerial is incorporated by reference and includes no later editions or amendments: Section 240.107 Incorporations by Reference The following materials isoarematerial is incorporated by reference and includes no later editions or amendments: Section 240.107 Incorporations by Reference The following materials isoarematerial is incorporated by reference and includes no later editions or amendments: Section 240.107 Incorporations is Report J1667 Snap-Acceleration Smoke Test Procedure for Heavy-Duty Diesel Powered Vehicles (February 1996). Juited States Environmental Protection Agency (USEPA), "High Tech I/M Test-Procedures, Emission Standards, Quality Control Requirements, and Equipment Proceedures, Emission Standards, Quality Control Requirements, and Equipment Proceedures, Emission Standards, Quality Control Requirements, and Equipment Procedures, Emission Standards, Quality Control Requirements, and Equipment Procedures, Emission Standards, Quality Control Requirements, and Equipment Procedures, Emission Received Procedures Procedures Revised Procedures Procedures Revised Procedures Revised Procedures Revised Procedures Revised Procedures adopted Procedures adopted Procedures adopted Broad Standards of this Subpart D-apply to thoseallthose vehicles Emissions Inspection Law of 20051995 and identified in Subsections 13CB 25(c) and (d) of challed the Web Procedures adopted by the Agency.2005. (Source: Amended at 35 Ill. Reg, effective) Section 240.152 Steady-State Idle Mode Vehicle Exhaust Emission Standards (Source: Amended at 35 Ill. Reg, effective) Section 240.152 Steady-State Idle Mode Vehicle Exhaust Emission Standards (A) Exhaust emissions from light duty vehicles shall not exceed the following limitations: (Model YearCarbon MonoxideHydrocarbons as Hexane		Part shall be det Agency in 35 Ill.			with test pr	cocedures
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The later editions or amendments: ***Society of Automotive Engineers (SAE), 400 Commonwealth Drive, Warrendale, PA 15096-0001, www.sae.org: Report J1667 Snap-Acceleration Smoke Test Procedure for Heavy-Duty Diesel Powered Vehicles (Pebruary 1996). **OUNTED States Environmental Protection Agency (USEPA), "High Tech I/M Test Procedures, Emission Standards, Quality Control Requirements, and Equipment Operations: INVAO and Punctional Evaporative System Tests, Revised Procedures, Emission Standards, Quality Control Requirements, and Equipment Operations: INVAO and Punctional Evaporative System Tests, Revised Procedures, Emission Standards, Quality Control Requirements, and Equipment Operations: INVAO and Punctional Evaporative System Tests, Revised Procedures, Tanabards of Council Procedures, and Equipment Operations of Procedures and Equipment Operations of Procedures and Procedur	Section 240.107	Incorporations k	y Reference	e		
Procedures, Emission Standards, Quality Control Requirements, and Equipment-Openifications: IM240 and Functional Evaporative System Tests, Revised Feechnical Guidance, "Report EPA AA RSPD IM 96 1 (June 1996), 2565 Plymouth Road, Ann Arbor, MI 48105. (Source: Amended at 35 Ill. Reg, effective) SUBPART D: STEADY-STATE IDLE MODE TEST EMISSION STANDARDSTANDARDS Section 240.151 Applicability The standards of this Subpart D-apply to thosealthose vehicles identified in subsection 13C-25(d) imagested upon implementation of the Vehicle Emissions Inspection Law of 20051995 and identified in Subsections 13CB-25(c) and (d) of chat law utilizing steady state exhaust emission test procedures adopted by the Agency-2005. (Source: Amended at 35 Ill. Reg, effective) Section 240.152 Steady-State Idle Mode Vehicle Exhaust Emission Standards a) Exhaust emissions from light duty vehicles shall not exceed the following limitations: Model YearCarbon MonoxideHydrocarbons as Hexane(%) (ppm)1968 1971	no later edition a) Society of PA 15096-0001,	ns or amendments: Automotive Engin www.sae.org: Rep	eers (SAE),	400 Common Snap-Acceler	wealth Drive	, Warrendale,
SUBPART D: STEADY-STATE IDLE MODE TEST EMISSION STANDARDS Section 240.151 Applicability The standards of this Subpart D-apply to thoseallthose vehicles identified in subsection 13C-25(d) inspected upon implementation of the Vehicle Emissions Inspection Law of 20051995 and identified in Subsections 13CB-25(e) and (d) of that law utilizing steady state exhaust emission test procedures adopted by the Agency.2005. (Source: Amended at 35 Ill. Reg, effective) Section 240.152 Steady-State Idle Mode Vehicle Exhaust Emission Standards a) Exhaust emissions from light duty vehicles shall not exceed the following limitations: Model YearCarbon MonoxideHydrocarbons as Hexane	Procedures, Emir Specifications: Technical Cuidar	ssion Standards, Ç — IM240 and Functi nce," Report EPA-A	uality Contonal Evapo i	rol Require	ements, and E	Iquipment - rised -
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Exhaust emissions from heavy duty vehicles shall not exceed the following	newer1.2220					
	limitations:					

b) Any violations of Sections 240.152, 240.162, 240.163, 240.172, 240.182, or

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SUBPART	E: TRA	NSIENT LO	DADED MOD	E TEST EM	ISSION STANDA	ARDS -(Repeal	led)
Section	240.161	Applica	ability ((Repealed)			
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(S	ource:	Repealed	l at 35 I	ll. Reg	, effec	tive)
Section	240.162	Vehicle	e Exhaust	Emission	Start-Up Sta	ındards (Rep	pealed)
this Par 2001. F all mode	t shall rom Feb l year	apply for ruary 1, 1981 thro	or all ve 2001, or ough mode	hicles su ward, the	ds contained bject to insp se standards 87 LDV, LDT1, (gpm).	ection unti shall conti	l January 3 inue to appl
(Source:	Repeale	d at 35	Ill. Reg.	, effe	ctive)
Section	240.163	Vehicle	e Exhaust	Emission	Final Standa	ırds (Repeal	Led)
in Secti except f which sh	on 240. or mode all con	Table B of lyear 19	of this I 981 throu use the	art shall gh model standards	st emission f apply for al year 1987 LDV contained ir . All standar	l vehicles 7, LDT1, and 1 Section 24	subject to l LDT2 vehic lO.Table A c

Vehicle exhaust emissions fast pass standards contained in Section 240.Table C of this Part will apply for all vehicles subject to inspection under Section 240.161 of this Part utilizing the IM240 transient loaded mode exhaust emission test procedures that have been adopted by the Agency in 35 Ill. Adm. Code 276. All standards are expressed as the cumulative grams for each second of the composite and Phase 2 tests.

(Source: Repealed at 35 Ill. Reg.____, effective _____)

Section 240.165 Compliance Determination (Repealed)

- Vehicle Exhaust Emission Start Up and Final Standards Compliance shall be determined based upon the measurement of exhaust emissions while operating the vehicle on a dynamometer and following the driving cycle as specified for the transient IM240 test procedures adopted by the Agency. If the corrected, composite emission rates exceed standards for any pollutant, additional analysis of test results shall review the second phase ("Phase 2") of the driving cycle separately. Phase 2 shall include second 94 through second 239 of the driving cycle. Second by second emission rates in grams and composite emission rates in grams per mile for Phase 2 and for the entire composite test shall be recorded for each pollutant. For any given pollutant, if the composite emission level is at or below the composite standard or if the Phase 2 grams per mile emission level is at or below the applicable Phase 2 standard, then the vehicle shall pass the test for that pollutant. Composite and Phase 2 emission rates shall be calculated in accordance with procedures specified in "High Tech I/M Procedures,-Emissions Standards, Quality Control Requirements, and Equipment Specifications: IM240 and Functional Evaporative System Tests, Revised Technical Guidance", incorporated by reference at Section 240.107(c) of this Part.
- b) Vehicle Exhaust Emission Fast Pass Standards Compliance will be determined based upon the measurement of exhaust emissions while operating the vehicle on a dynamometer and following the driving cycle as specified for the transient IM240 test procedures adopted by the Agency. Vehicles will be fast-passed using the following algorithm:
- 1) Beginning at second 30 of the driving cycle, cumulative second by second emission levels for each second, calculated from the start of the cycle in grams, will be compared to the cumulative fast pass emission standards for the second under consideration. Beginning at second 109, fast pass decisions are based upon analysis of cumulative emissions in Phase 2, the portion of the test beginning at second 94, as well as emission levels accumulated from the beginning of the composite test.
- 2) A vehicle will pass the transient IM240 test for a given pollutant ifeither of the following conditions occurs:
- A) cumulative emissions of the pollutant are below the full cycle fast pass standard for the second under consideration; or
- B) at second 109 and later, cumulative Phase 2 emissions are below the Phase 2 fast pass standards for the second under consideration.
- 3) Testing may be terminated when fast pass criteria are met for all subject pollutants in the same second.
- 4) If a fast-pass determination cannot be made for all subject pollutants before the driving cycle ends, the pass/fail determination for each component

will be based on composite or Phase 2 emissions over the full driving cycleaccording to the procedures in subsection (a) of this Section. In cases where fast-pass standards are not used, composite emission rates in grams per mile for-Phase 2 and for the entire composite test will be recorded for each pollutant. Composite and Phase 2 emission rates will be calculated in accordance with procedures specified in "High-Tech I/M Procedures, Emissions Standards, Quality Control Requirements, and Equipment Specifications: IM240 and Functional Evaporative System Tests, Revised Technical Guidance" incorporated by reference at Section 240.107(c) of this Part. (Source: Repealed at 35 Ill. Reg.____, effective ______) SUBPART F: EVAPORATIVE TEST STANDARDS Section 240.171 Applicability The standards of this Subpart apply to those vehicles identified in subsection 13C-25(d) of the Vehicle Emissions Inspection Law of 2005The standards of Section 240.172 of this Subpart shall apply to all model year 1968 and newer vehicles required at the time of manufacture to be equipped with evaporative emission control systems.2005. (Source: Amended at 35 Ill. Reg.____ , effective _____) SUBPART G: ON-ROAD REMOTE SENSING TEST EMISSION STANDARDS Section 240.181 Applicability The standards of this Subpart apply to thoseall those vehicles tested pursuant to subsection 13C-15(b)(11) of the Vehicle Emissions Inspection Law of 2005which are inspected utilizing the on-road remote sensing exhaust emission-test procedures that will be adopted by the Agency in 35 Ill. Adm. Code 276.2005. (Source: Amended at 35 Ill. Reg.____, effective _____) Section 240.182 On-Road Remote Sensing Emission Standards Exhaust emissions from all subject vehicles and trucks shall not exceed the following limitations: **YearHydrocarbons** Model Year Hydrocarbons (ppm)Carbon Monoxide (%)1996 and newer2+ (mqq) 2.04002.0 400 450 3.0 1988-1991 1981-1987 -----650 1300 1975-1980 1968-1974 ----1700 8.0 (Source: Amended at 35 Ill. Reg.____, effective _____

SUBPART H: ON-BOARD DIAGNOSTIC TEST STANDARDS

Section 240.191 Applicability

The standards of this Subpart apply to those vehicles tested pursuant to subsection 13C-25(c) of the Vehicle Emissions Inspection Law of 2005all 1996 and newer model year light duty vehicles, light duty trucks 1, and light duty trucks 2 that are required to meet the standards contained in 40 CFR § 86.094-17 and which are inspected utilizing the on board diagnostic test procedures contained

in 35 Ill. Adm. Code 276.209. Vehicles that receive a result of fail do not thereby fail their emissions test until January 1, 2002.2005. (Source: Amended at 35 Ill. Reg.____, effective _____ Section 240. TABLE A Vehicle Exhaust Emission Start-Up Standards (Repealed) Light Duty Vehicles: Model YearsHydrocarbonsCarbon MonoxideOxides of Nitrogen Composite Phase-2 Composite Phase 2 Composite Phase 2 (gpm) (gpm) (gpm) (gpm) (gpm) (gpm) 1996+ 0.80 0.50 15.0 12.0 20 Reserved1991-19951.200.7520.016.02.5Reserved1983-19902.001.2530.024.03.0Reserved1981-19822.001.2560.048.03.0Reserved Light Duty Trucks 1: Model YearsHydrocarbonsCarbon MonoxideOxides of NitrogenCompositePhase 2CompositePhase 2CompositePhase 2(gpm)(gpm)(gpm)(gpm)(gpm) 1996+ (< 3750 LVW) 0.800.5015.012.02.0Reserved (> 3750-LVW) 1.000.6320.016.02.5Reserved1991-19952.401.5060.048.03.0Reserved1988-19903.202.0080.064.03.5Reserved1984-19873.202.0080.064.07.0Reserved1981-19837.505.00100.080.07.0Reserved Light Duty Trucks 2: Model YearsHydrocarbonsCarbon MonoxideOxides of NitrogenCompositePhase 2CompositePhase 2(qpm) (qpm) (qpm) (qpm) (qpm) (qpm) 1996+ (<-5750 ALVW)1.000.6320.016.02.5Reserved (> 5750-ALVW) 2.401.5060.048.04.0Reserved1991-19952.401.5060.048.04.5Reserved1988-19903.202.0080.064.05.0Reserved1984-19873.202.0080.064.07.0Reserved1981-19837.505.00100.080.07.0Reserved (Source: Repealed at 35 Ill. Reg.____, effective ____)

Section 240. TABLE B Vehicle Exhaust Emission Final Standards (Repealed) (Source: Repealed at 35 Ill. Reg. , effective

Light Duty Vehicles:

Section 240 TABLE B Vehicle Exhaust Emission Final Standards (Repealed)

Model YearsHydrocarbonsCarbon MonoxideOxides of Nitrogen
CompositePhase 2CompositePhase 2(gpm) (gpm) (g

Model YearsHydrocarbonsCarbon MonoxideOxides of Nitrogen
CompositePhase 2CompositePhase 2CompositePhase 2(gpm) (gpm) (gp

Model YearsHydrocarbonsCarbon MonoxideOxides of NitrogenCompositePhase 2CompositePhase 2CompositePhase 2(gpm) (gpm) (gpm

(Source: Repealed at 35 Ill. Reg.____, effective _____

Section 240.TABLE C Vehicle Exhaust Emission Fast-Pass Standards (Repealed)

Carbon Monoxide

a) Vehicles having composite hydrocarbon emission limitations of less than 1.25-grams per mile, in Section 240.Table A or Section 240.Table B, shall use the hydrocarbon fast pass standards contained in this subsection. Vehicles having composite carbon monoxide emission limitations of less than 20.0 grams per mile, in Section 240.Table A or Section 240.Table B, shall use the carbon monoxide fast pass standards contained in this subsection:

	Second	Composite	Phase 2	Composite	Phase 2	
30	0.124	N/A	0.693	N/A		
31	0.126	N/A	0.773	N/A		
32	0.129	N/A	0.837	N/A		
33	0.135	N/A	0.851	N/A		
34	0.140	N/A	0.853	N/A		
35	0.146	N/A	0.857	N/A		
36	0.150	N/A	0.900	N/A		
37	0.153	N/A	0.960	N/A		
38	0.156	N/A	1.034	N/A		
39	0.160	N/A	1.070	N/A		
40	0.165	N/A	1.076	N/A		
41	0.169	N/A	1.083	N/A		

Hydrocarbons

42	0.172	N/A	1.102	N/A
43	0.173	N/A	1.111	N/A
44	0.177	N/A	1.114	N/A
45	0.197	N/A	1.157	N/A
46	0.200	N/A	1.344	N/A
47	0.208	N/A	1.482	N/A
48	0.221	N/A	1.530	N/A
49	0.232	N/A	1.542	N/A
50	0.235	N/A	1.553	N/A
51	0.238	N/A	1.571	N/A
52	0.240	N/A	1.595	N/A
53	0.242	N/A	1.633	N/A
54	0.246	N/A	1.685	N/A
55	0.249	N/A	1.689	N/A
56	0.252	N/A	1.693	N/A
57	0.261	N/A	1.700	N/A
58	0.271	N/A	1.723	N/A
59	0.276	N/A	1.852	N/A
60	0.278	N/A	1.872	N/A
61	0.280	N/A	1.872	N/A
62	0.282	N/A	1.872	N/A
63	0.283	N/A	1.900	N/A
64	0.284	N/A	1.917	N/A
65	0.285	N/A	1.944	N/A
66	0.286	N/A	2.000	N/A
67	0.288	N/A N/A	2.060 2.064	N/A N/A
68	0.291 0.294	N/A N/A	2.054 2.076	N/A
69 70	0.296	N/A	2.076 2.104	N/A
70 71	0.298	N/A	$\frac{2.104}{2.117}$	N/A
71 72	0.300	N/A	2.125	N/A
72 73	0.302	N/A	2.125 2.130	N/A
73 74	0.304	N/A	2.138	N/A
7 5	0.307	N/A	2.150 2.152	N/A
76	0.308	N/A	2.132 2.170	N/A
77	0.308	N/A	2.188	N/A
78	0.308	N/A	2.200	N/A
79	0.314	N/A	2.212	N/A
80	0.320	N/A	2.212	N/A
81	0.324	N/A	2.221	N/A
82	0.327	N/A	2.222	N/A
83	0.329	N/A	2.227	N/A
84	0.333	N/A	2.236	N/A
85	0.336	N/A	2.243	N/A
86	0.339	N/A	2.262	N/A
87	0.343	N/A	2.271	N/A
88	0.347	N/A	2.284	N/A
89	0.350	N/A	2.299	N/A
90	0.356	N/A	2.308	N/A
91	0.358	N/A	2.326	N/A
92	0.360	N/A	2.330	N/A
93	0.363	N/A	2.331	N/A
94	0.367	N/A	2.344	N/A
95	0.370	N/A	2.347	N/A
96	0.372	N/A	2.355	N/A
97	0.376	N/A	2.395	N/A
98	0.388	N/A	2.451	N/A

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99	0.396	N/A	2.508	N/A
100	0.405	N/A	2.590	N/A
101	0.410	N/A	2.660	N/A
102	0.411	N/A	2.749	N/A
103	0.412	N/A	2.913	N/A
104	0.413	N/A	3.162	N/A
105	0.421	N/A	3.170	N/A
106	0.428	N/A	3.197	N/A
107	0.430	N/A	3.288	N/A
108	0.455	N/A	3.419	N/A
109	0.459	0.015	3.587	0.168
110	0.462	0.017	3.595	0.173
111	0.464	0.021	3.640	0.237
112	0.466	0.024	3.740	0.266
113	0.468	0.024	3.868	0.280
114	0.471	0.025	3.877	0.291
115	0.488	0.026	3.934	0.314
116	0.513	0.029	4.015	0.331
117	0.538	0.032	4.061	0.345
118	0.561	0.035	4.063	0.350
119	0.577	0.035	4.079	0.356
120	0.580	0.036	4.140	0.367
121	0.586	0.038	4.185	0.388
122	0.594	0.040	4.199	0.407
123	0.603	0.041	4.205	0.463
124	0.610	0.042	4.212	0.480
125	0.615	0.042	4.232	0.506
126	0.624	0.042	4.298	0.518
127	0.628	0.045	4.344	0.522
128	0.632	0.046	4.361	0.525
129	0.637	0.046	4.366	0.528
130	0.641	0.049	4.369	0.530
131	0.643	0.050	4.372	0.530
132	0.644	0.052	4.435	0.534
133	0.645	0.054	4.523	0.550
134	0.647	0.054	4.524	0.554
135	0.651	0.054	4.525	0.590
136	0.658	0.055	4.531	0.616
137	0.663	0.055	4.534	0.639
138	0.666	0.056	4.542	0.653
139	0.668	0.059	4.553	0.662
140	0.670	0.061	4.554	0.683
141	0.672	0.061	4.554	0.696
142	0.675	0.061	4.554	0.708
143	0.678	0.063	4.554	0.721
144	0.681	0.064	4.554	0.739
145	0.684	0.065	4.554	0.742
146	0.686	0.066	4.554	0.743
147	0.688	0.067	4.554	0.745
148	0.690	0.068	4.554	0.748
149	0.692	0.069	4.554	0.751
150	0.694	0.070	4.554	0.762
151	0.696	0.071	4.556	0.789
152	0.698	0.072	4.556	0.790
153	0.700	0.073	4.565	0.794
154	0.702	0.073	4.612	0.799
155	0.704	0.074	4.834	0.805

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156	0.706	0.077	5.702	0.842	
150 157	0.708	0.079	5.841	0.990	
157 158	0.710	0.073	6.170	1.038	
159	0.712	0.082	6.670	1.357	
155	0.716	0.086	7.425	1.455	
161	0.750	0.095	8.379	1.546	
162	0.784	0.107		1.824	
163	0.805	0.107	9.648 10.918	2.74	6
164	0.840		12.157	2.74	
		0.122 0.127			
165	0.853 0.874	0.159	12.731 12.831	3.633 4.50	
166 167	0.903	0.133	12.892	4.95	
168		0.189	12.032 12.932	4.95 4	
	0.910			5.73 (
169	0.914	0.200 0.220	13.702 14.139	5.73	<u>-</u>
170	0.916 0.919		14.139 14.964	6.33	
171 172	0.919 0.931	0.236	14.964 15.704	6.49	
	0.931	0.247 0.257	16.253	6.79	
173	0.983		16.253 16.907	7.20!	
174	1.018	0.267			
175		0.283	17.655	8.15	
176	1.027	0.295	18.020	8.23	
177	1.035	0.312	18.349	8.584	
178	1.051	0.318	18.671	8.800	
179	1.074	0.323	18.972	8.84	
180	1.084	0.337	19.228	8.913	
181	1.099	0.345	20.123	9.122	
182	1.121	0.350	20.405	9.532	
183	1.132	0.359	20.754	10.25	
184	1.152	0.387	21.684	10.80	
185	1.161	0.398	21.955	10.99	
186	1.168	0.400	22.650	11.20	
187	1.175	0.402	22.989	11.5	
188	1.181	0.405 0.418	23.535 23.876	11.89	
189	1.188 1.203	0.429		12.1	
190 191			24.018	12.5	<u>` </u>
	1.219	0.442	24.464		
192	1.233	0.457	24.685	12.59	
193	1.251	0.473	24.931	12.6	
194	1.255	0.487	25.188 25.468	12.7	
195 196	1.258	0.501	25.400 25.627	12.9	
190 197	1.265 1.280	0.510 0.512	25.746	12.9	
197 198	1.293	0.514	25.850	13.00	
199	1.301	0.514	25.030 25.974	13.10	
200	1.313	0.518	26.141	13.24	
200 201	1.324	0.527	26.225	13.4 :	
202	1.332	0.540	26.338	13.60	
203	1.341	0.547	26.547	13.7	
203 204	1.357	0.547	26.818	13.94	
201 205	1.375	0.559	27.052	14.0	
205	1.392	0.563	27.393	14.2	
200 207	1.408	0.567	27.593 27.501	14.4	
207 208	1.422	0.571	27.632	14.4	
200 209	1.433	0.575	27.803	14.7	
210	1.443	0.579	27.953	14.7	
210 211	1.453	0.575 0.595	28.205	14.9	
211 212	1.453 1.463	0.595	28.543	14.9.	
EIE	1.405	0.005	20.545	±3.0.	LT

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213	1.468	0.614	28.997	15.221
214	1.470	0.622	29.000	15.472
215	1.474	0.627	29.005	15.555
216	1.478	0.638	29.081	15.652
217	1.481	0.643	29.281	15.969
218	1.484	0.643	29.483	16.028
219	1.487	0.645	29.734	16.375
220	1.490	0.651	29.803	$\frac{16.487}{}$
221	1.493	0.655	29.821	$\frac{16.524}{}$
222	1.504	0.663	29.847	16.578
223	1.522	0.671	29.862	16.684
224	1.547	0.675	29.873	$\frac{16.755}{}$
225	1.549	0.684	30.008	$\frac{16.770}{}$
226	1.562	0.694	30.126	16.805
227	1.574	0.701	30.127	16.865
228	1.579	0.702	30.127	16.960
229	1.584	0.708	30.208	16.960
230	1.589	0.708	30.314	16.962
231	1.590	0.709	30.323	16.988
232	1.596	0.710	30.325	$\frac{17.072}{}$
233	1.598	0.710	30.368	17.094
234	1.604	0.711	30.411	17.184
235	1.610	0.712	30.416	17.187
236	1.612	0.712	30.428	17.188
237	1.613	0.712	30.430	$\frac{17.189}{}$
238	1.614	0.713	30.452	17.241
239	1.615	0.716	30.488	17.370

b) Vehicles having composite hydrocarbon emission limitations of at least 1.25 grams per mile but less than 2.00 grams per mile, in Section 240.Table A or Section 240.Table B, shall use the hydrocarbon fast pass standards contained in this subsection. Vehicles having and composite carbon monoxide emission limitations of at least 20.0 grams per mile but less than 30.0 grams per mile, in Section 240.Table A or Section 240.Table B, shall use the carbon monoxide fast pass standards contained in this subsection;

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	Hydrocarbon	ns Carbo	on Monoxide		
	Second	Composite	Phase 2	Composite-	Phase 2
30	0.247	N/A	1.502	N/A	
31	0.253	N/A	1.546	N/A	
32	0.258	N/A	1.568	N/A	
33	0.263	N/A	1.582	N/A	
34	0.268	N/A	1.593	N/A	
35	0.277	N/A	1.602	N/A	
36	0.283	N/A	1.621	N/A	
37	0.293	N/A	1.631	N/A	
38	0.297	N/A	1.702	N/A	
39	0.298	N/A	1.784	N/A	
40	0.313	N/A	1.879	N/A	
41	0.320	N/A	2.162	N/A	
42	0.327	N/A	2.307	N/A	
43	0.342	N/A	2.343	N/A	
44	0.360	N/A	2.376	N/A	
45	0.376	N/A	2.406	N/A	

46	0.389	N/A	2.433	N/A
47	0.408	N/A	2.458	N/A
48	0.423	N/A	2.483	N/A
49	0.434	N/A	2.774	N/A
50	0.444	N/A	2.844	N/A
51	0.454	N/A	2.900	N/A
52	0.454 0.465	N/A	2.936	N/A
53	0.472	N/A	3.133	N/A
54	0.478	N/A	3.304	N/A
55	0.485	N/A	3.407	N/A
56	0.493 0.493	N/A	3.456	N/A
57	0.500	N/A	3.480	N/A
58	0.505	N/A	3.518	N/A
59	0.505 0.514	N/A	3.560	N/A
60	0.514	N/A	3.593	N/A
61	0.540	N/A	3.628	N/A
62	0.543	N/A	3.641	N/A
63	0.546	N/A	3.655	N/A
64	0.551	N/A N/A	3.680	N/A
65	0.559	N/A N/A	3.700	N/A
66	0.567	N/A N/A	3.728	N/A
67	0.575	N/A	3.857	N/A
68	0.588	N/A	3.894	N/A
69	0.595	N/A	3.943	N/A
70	0.601	N/A	3.983	N/A
70 71	0.606	N/A	4.009	N/A
71 72	0.610	N/A	4.023	N/A
			4.023	N/A
73	0.617	N/A N/A	4.053	N/A
74	0.631	N/A	4.053 4.063	N/A
75	0.643		4.053 4.077	N/A N/A
76	0.651	N/A	4.225	N/A N/A
77	0.659	N/A	4.243	N/A N/A
78	0.667	N/A	4.243 4.260	N/A N/A
79	0.676 0.681	N/A	4.282	N/A N/A
80		N/A		
81	0.685	N/A	4.322	N/A
82	0.689	N/A	4.398	N/A
83	0.694 0.700	N/A	4.482 4.515	N/A
84		N/A		N/A
85	0.705	N/A	4.518	N/A N/A
86	0.709	N/A	4.520	N/A N/A
87	0.713	N/A	4.522	
88	0.717	N/A	4.522 4.523	N/A N/A
89	0.721	N/A		
90	0.724	N/A	4.526	N/A
91	0.727	N/A	4.527	N/A
92	0.729	N/A	4.527	N/A
93	0.731	N/A	4.528	N/A
94	0.734	N/A	4.528	N/A
95	0.740	N/A	4.528	N/A
96	0.748	N/A	4.529	N/A
97	0.759	N/A	4.575	N/A
98	0.771	N/A	4.703	N/A
99	0.783	N/A	4.805	N/A
100	0.793	N/A	4.886	N/A
101	0.810	N/A	4.957	N/A
102	0.823	N/A	5.104	N/A

103	0.836	N/A	5.340	N/A
104	0.853	N/A	5.496	N/A
105	0.871	N/A	5.625	N/A
106	0.887	N/A	5.815	N/A
107	0.899	N/A	6.473	N/A
108	0.931	N/A	7.037	N/A
109	0.947	0.040	7.419	0.246
110	0.957	0.047	7.643	0.257
	0.965	0.052	7.759	0.286
111		0.052		0.379
112	0.971		7.824	
113	0.977	0.061	7.889	0.425
114	0.983	0.064	7.960	0.457
115	1.003	0.072	8.024	0.477
116	1.030	0.081	8.076	0.494
117	1.041	0.082	8.111	0.504
118	1.050	0.083	8.130	0.512
119	1.052	0.092	8.148	0.519
120	1.055	0.094	8.211	0.529
121	1.061	0.097	8.478	0.529
122	1.071	0.100	8.548	0.530
123	1.081	0.103	8.561	0.531
124	1.091	0.106	8.568	0.532
125	1.102	0.100	8.572	0.533
126	1.110	0.110	8.584	0.548
127	1.116	0.112	8.592	0.610
128	1.121	0.114	8.596	0.614
129	1.125	0.116	8.597	0.622
130	1.128	0.118	8.601	0.631
131	1.130	0.120	8.605	0.640
132	1.132	0.122	8.608	0.646
133	1.134	0.123	8.626	0.650
134	1.135	0.124	8.650	0.652
135	1.143	0.127	8.660	0.738
136	1.147	0.130	8.767	0.754
137	1.156	0.134	9.029	0.780
138	1.163	0.139	9.238	0.795
139	1.186	0.146	9.389	0.804
140	1.253	0.149	9.493	0.810
141	1.262	0.151	9.583	0.815
142				0.818
				0.821
143	1.277	0.155	9.669	
144	1.283	0.157	9.716	0.825
145	1.291	0.162	9.763	0.840
146	1.294	0.164	9.809	0.847
147	1.296	0.166	9.852	0.855
148	1.298	0.168	9.885	0.865
149	1.303	0.169	9.932	0.874
150	1.316	0.170	9.986	0.891
151	1.330	0.171	10.039	0.914
152	1.342	0.172	10.072	0.929
153	1.348	0.173	10.090	0.937
154	1.353	0.175	10.105	0.942
155	1.362	0.178	10.146	0.949
156	1.365	0.180	10.245	1.375
157	1.366	0.189	10.215	1.576
158	1.373	0.198	10.923	1.943
150 159	1.397	0.203	11.970	2.820
157	1.331	0.203	11:270	2.020

160	1.422	0.207	13.421	3.281	
161	1.440	0.214	15.289	3.483	
162	1.452	0.221	15.912	3.620	
163	1.465	0.229	16.530	4.168	
164	1.509	0.247	17.622	4.338	
165	1.533	0.274	18.366	4.682	
166	1.555	0.309	19.869	5.633	
167	1.576	0.318	20.711	6.137	
168	1.598	0.322	22.319	6.853	
169	1.618	0.333	23.751	7.136	
170	1.636	0.343	24.842	7.320	
171	1.666	0.356	25.410	7.685	
172	1.685	0.385	25.798	8.052	
173	1.726	0.409	26.122	8.344	
174	1.742	0.433	26.353	8.602	
175	1.756	0.453	26.638	8.898	
176	1.769	0.463	27.219	9.251	
				10.253	
177	1.784	0.507	27.279		
178	1.802	0.523	27.320	10.828	
179	1.822	0.528	27.352	11.060	
180	1.843	0.541	27.822	11.060	
181	1.864	0.549	28.763	11.188	
182	1.884	0.559	29.402	11.345	
183	1.896	0.571	29.971	11.733	
184	1.915	0.584	30.276	12.598	
185	1.940	0.598	30.988	12.953	
186	1.958	0.613	31.095	13.213	
187	$\frac{1.972}{}$	0.624	31.314	14.131	
188	1.985	0.629	31.833	14.839	
189	1.991	0.629	32.239	15.137	
190	1.993	0.638	32.547	15.138	
191	1.995	0.648	32.855	15.141	
192	2.001	0.659	33.153	15.595	
193	2.015	0.663	33.444	15.658	
194	2.031	0.671	33.482	15.704	
195	2.047	0.681	33.516	15.729	
196	2.063	0.693	33.549	16.058	
197	2.079	0.709	33.653	16.987	
198	2.094	0.725	33.973	17.064	
199	2.109	0.740	34.159	17.073	
200	2.122	0.754	34.191	17.153	
201	2.130	0.767	34.250	17.332	
202	2.137	0.775	34.469	17.406	
203	2.157	0.787	34.716	17.641	
204	2.172	0.795	34.969	17.922	
205	2.194	0.753	35.144	18.484	
206	2.222	0.854	35.418	18.553	
207	2.245	0.859	35.766	18.658	
208	2.268	0.872	35.700 35.949	18.953	
209	2.279	0.892	36.010	19.266	
210	2.288	0.896	36.548	19.309	
210 211	2.200 2.301	0.903	37.179	19:731	
211 212	2.301 2.316	0.903 0.924	37.173 37.651	19.731 19.902	
				19.902 20.012	
213	2.332	0.938	38.041		
	0 045				
214	2.345	0.941	38.591	20.260	
214 215 216	2.345 2.354 2.362	0.941 0.951 0.966	38.591 38.852 38.861	20.260 20.739 21.346	

*

217	2.368	0.979	38.926	21.810
218	2.376	0.980	39.194	22.001
219	2.384	0.981	39.474	22.290
220	2.391	1.005	39.668	22.324
221	2.395	1.016	39.781	22.343
222	2.400	1.022	39.890	22.522
223	2.405	1.028	39.954	22.661
224	2.409	1.035	39.984	22.666
225	2.413	1.041	39.989	22.667
226	2.415	1.045	39.990	22,668
227	2.417	1.051	39.990	22.669
228	2.419	1.055	39.990	22.670
229	2.420	1.059	39.991	22.671
230	2,421	1.062	40.012	22.671
231	2.423	1.063	40.061	22.672
232	2.425	1.063	40.116	22.673
233	2.427	1.063	40.249	22.673
234	2.429	1.064	40.253	22.673
235	2.430	1.064	40.290	22.674
236	2.431	1.066	40.385	22.675
237	2.432	1.069	40.488	22.675
238	2.433	1.072	40.720	22.675
239	2.434	1.075	40.763	22.677

e) Vehicles having composite hydrocarbon emission limitations of 2.00 grams per mile or greater, in Section 240.Table A or Section 240.Table B, shall use the hydrocarbon fast pass standards contained in this subsection. Vehicles having composite carbon monoxide emission limitations of 30.0 grams per mile or greater, in Section 240.Table A or Section 240.Table B, shall use the carbon monoxide fast pass standards contained in this subsection:

	Hydrocarb	ons Carbo	on Monoxide		
	Second	- Composite	Phase 2	Composite-	Phase 2
30	0.407	N/A	3.804	N/A	
31	0.415	N/A	3.985	N/A	
32	0.423	N/A	4.215	N/A	
33	0.436	N/A	4.440	N/A	
34	0.451	N/A	4.579	N/A	
35	0.464	N/A	4.688	N/A	
36	0.468	N/A	4.749	N/A	
37	0.475	N/A	4.783	N/A	
38	0.487	N/A	4.813	N/A	
39	0.506	N/A	4.876	N/A	
40	0.530	N/A	5.104	N/A	
41	0.549	N/A	5.217	N/A	
42	0.569	N/A	5.383	N/A	
43	0.588	N/A	5.571	N/A	
44	0.609	N/A	5.888	N/A	
45	0.621	N/A	6.199	N/A	
46	0.636	N/A	6.245	N/A	
47	0.649	N/A	6.318	N/A	
48	0.666	N/A	6.418	N/A	
49	0.679	N/A	6.540	N/A	
50	0.696	N/A	6.690	N/A	
51	0.712	N/A	6.875	N/A	

52	0.727	N/A	7.029	N/A
53	0.745	N/A	7.129	N/A
54	0.760	N/A	7.359	N/A
55	0.776	N/A	7.722	N/A
56	0.797	N/A	8.017	N/A
57	0.814	N/A	8.249	N/A
58	0.826	N/A	8.425	N/A
59	0.837	N/A	8.563	N/A
60	0.849	N/A	8.686	N/A
61	0.862	N/A	8.804	N/A
62	0.872	N/A	8.916	N/A
63	0.887	N/A	9.025	N/A
64	0.895	N/A	9.138	N/A
65	0.903	N/A	9.250	N/A
66	0.925	N/A	9.354	N/A
67	0.933	N/A	9.457	N/A
68	0.945	N/A	9.575	N/A
69	0.959	N/A	9.728	N/A
70	0.970	N/A	9.938	N/A
71	0.980	N/A	10.140	N/A
72	0.988	N/A	10.222	N/A
72 73	0.997	N/A	10.261	N/A
73 74	1.022	N/A	10.278	N/A
74 75	1.022	N/A	10.290	N/A
75 76	1.051	N/A N/A	10.715	N/A
		·		
77	1.064	N/A	10.790	N/A
78	1.075	N/A	10.844	N/A
79	1.087	N/A	10.921	N/A
80	1.097	N/A	11.010	N/A
81	1.105	N/A	11.090	N/A
82	1.114	N/A	11.136	N/A
83	1.136	N/A	11.136	N/A
84	1.160	N/A	11.165	N/A
85	1.182	N/A	$\frac{11.191}{}$	N/A
86	1.201	N/A	11.205	N/A
87	1.217	N/A	11.211	N/A
88	1.233	N/A	11.211	N/A
89	1.248	N/A	11.211	N/A
90	1.262	N/A	11.211	N/A
91	1.271	N/A	11.220	N/A
92	1.279	N/A	11.294	N/A
93	1.287	N/A	11.332	N/A
94	1.295	N/A	11.355	N/A
95	1.302	N/A	11.383	N/A
96	1.309	N/A	11.410	N/A
97	1.316	N/A	11.433	N/A
98	1.325	N/A	11.516	N/A
99	1.339	N/A	11.820	N/A
100	1.356	N/A	12.104	N/A
101	1.365	N/A	12.344	N/A
102	1.378	N/A	12.781	N/A
103	1.397	N/A	13.472	N/A
104	1.420	N/A	14.405	N/A
105	1.445	N/A	14.808	N/A
106	1.470	N/A	14.965	N/A
107	1.491	N/A	15.121	N/A
108	1.506	N/A	15.372	N/A
		,		/

109	1.517	0.151	15.530	1.113
110	1.528	0.159	15.687	1.213
111	1.542	0.172	16.018	1.344
112	1.559	0.186	16.527	1.399
113	1.578	0.199	16.810	1.520
114	1.594	0.207	16.961	1.640
115	1.605	0.216	17.120	1.684
116	1.615	0.229	17.135	1.693
117	1.625	0.235	17.249	1.786
118	1.642	0.240	17.451	2.007
119	1.670	0.245	17.509	2.084
120	1.694	0.243	17.605	2.179
121	1.705	0.267	17.734	2.264
		0.277	18.049	2.328
122	1.717			2.326 2.375
123	1.732	0.287	18.447 18.592	
124	1.747	0.298		2.437
125	1.763	0.308	18.657	2.543
126	1.779	0.316	18.796	2.593
127	1.795	0.322	18.952	2.641
128	1.810	0.329	19.137	2.663
129	1.823	0.338	19.329	2.672
130	1.835	0.346	19.519	2.676
131	1.845	0.354	19.707	2.683
132	1.854	0.356	19.882	2.817
133	1.862	0.357	19.905	2.992
134	1.870	0.359	20.049	3.111
135	1.883	0.362	20.460	3.234
136	1.888	0.364	20.746	3.304
137	1.896	0.368	21.068	3.310
138	1.911	0.378	21.380	3.320
139	1.928	0.391	21.748	3.354
140	1.949	0.402	22.046	3.436
141	1.969	0.408	22.348	3.443
142	1.982	0.422	22.397	3.452
143	1.999	0.428	22.407	3.490
144	2.011	0.432	22.417	3.552
145	2.022	0.434	22.922	3.588
146	2.035	0.439	22.951	3.600
147	2.043	0.450	22.976	3.616
148	2.049	0.460	23.017	3.627
149	2.063	0.467	23.073	3.636
150	2.085	0.472	23.161	3.676
151	2.104	0.480	23.218	3.882
152	$\frac{2.117}{}$	0.491	23.253	4.011
153	2.127	0.503	23.337	4.047
154	2.138	0.505	23.425	4.067
155	2.152	0.515	23.534	4.081
156	2.168	0.522	23.652	4.116
157	2.186	0.527	23.739	4.251
158	2.205	0.537	24.606	5.099
159	2.224	0.549	25.615	5.383
160	2.242	0.568	26.073	6.362
161	2.268	0.586	28.496	7.926
162	2.308	0.610	29.772	8.429
163	2.352	0.648	31.056	9.201
164	2.406	0.677	33.351	10.825
165	2.421	0.699	34.890	12.291

166	2.435	0.720	35.937	13.366
167	2.435 2.470	0.738	37.012	14.428
168	2.501	0.757	37.892	15.318
169	2.537	0.707	39.028	15.699
170	2.571	0.020	40.406	16.073
171	2.625	0.869	41.379	16.475
172	2.657	0.885	42.033	17.158
172 173	2.683	0.900	42.432	17.532
174	2.701	0.941	42.742	17.965
175	2.717	0.979	43.399	18.242
176	2.732	1.002	43.895	18.283
177	2.756	1.025	44.227	18.480
178	2.781	1.047	44.926	19.576
179	2.811	1.065	45.256	20.015
180	2.853	1.089	45.553	20.203
181	2.898	1.109	45.753	20.433
182	2.946	1.133	46.210	21.025
183	2.988	1.158	47.017	21.882
184	3.023	1.184	48.185	22.204
185	3.057	1.209	48.741	22.859
186	3.076	1.222	49.462	23.533
187	3.101	1.231	50.313	24.281
188	3.120	1.239	51.285	25.078
189	3.136	1.254	52.076	25.276
190	3.151	1.278	52.857	25.578
191	3.163	1.300	52.876	25.859
192	3.209	1.313	53.067	25.985
193	3.223	1.324	53.777	26.153
194	3.237	1.340	54.242	26.582
195	3.263	1.367	54.489	27.067
196	3.302	1.387	54.601	27.456
197	3.338	1.402	54.912	27.805
198	3.372	1.417	55.588	28.070
199	3.390	1.432	56.266	28.590
200	3.428	1.446	56.617	28.914
201	3.470	1.460	56.863	29.063
202	3.493	1.477	57.204	29.502
203	3.509	1.492	57.371	29.697
204	3.522	1.501	57.487	29.713
205	3.533	1.510	57.728	29.783
206	3.550	1.522	58.097	29.942
207	3.578	1.561	58.572	30.284
208	3.607	1.585	59.024	30.755
209	3.630	1.597	59.321	31.287 31.549
210	3.658	1.607	59.715 60.045	31.820
211	3.701	1.627	60.453	32.250
212	3.745 3.778	1.645 1.656	60.935	32.230 32.546
213		1.663	61.307	32.808
214 215	3.814 3.825	1.669	61.666	33.060
215 216	3.835	1.674	62.148	33.204
210 217	3.844	1.685	62.532	33.341
217 218	3.853	1.700	62.546	33.414
210 219	3.864	1.704	62.559	33.514
220	3.874	1.706	62.570	33.640
221	3.891	1.709	62.846	33.692
222	3.928	1.711	63.097	33.711
	_			-

223	3.966	1.714	63.150	33.733
224	4.008	1.718	63.150	33.770
225	4.010	1:721	63.150	33.796
226	4.012	1.723	63.150	33.810
227	4.016	1.726	63.150	33.821
228	4.019	1.729	63.150	33.839
229	4.057	1.731	63.150	33.865
230	4.065	1.733	63.150	33.894
231	4.071	1.735	63.150	33.918
232	4.073	1.743	63.150	33.944
233	4.075	1.749	63.150	33.985
234	4.077	1.753	63.153	34.014
235	4.079	1.757	63.159	34.032
236	4.081	1.762	63.173	34.051
237	4.083	1.767	63.193	34.067
238	4.084	1.772	63.214	34.079
239	4.085	1.776	63.233	34.085

(Source: Repealed at 35 Ill. Reg.____, effective ____)

ILLINOIS RECISTER

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

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Format changed	0			
Total changes	846			

1ST NOTICE VERSION

JCAR350240-1100129r01

1 2 3 4 5		TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE B: AIR POLLUTION CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER k: EMISSION STANDARDS AND LIMITATIONS FOR MOBILE SOURCES
6		TOR MODILE GOORGES
7		PART 240
8		MOBILE SOURCES
9		THOUSE SOUTHOUS
10		SUBPART A: DEFINITIONS AND GENERAL PROVISIONS
11		SUBPART A: DEFINITIONS AND GENERAL PROVISIONS Preamble Definitions Prohibitions Inspection Penalties Determination of Violation
12	Section	LEAKE I
13	240.101	Preamble
14	240.102	Definitions STATE 20 20
15	240.103	Prohibitions Politica Co.
16	240.104	Inspection
17	240.105	Penalties
18	240.106	Determination of Violation
19	240.107	Incorporations by Reference
20		•
21		SUBPART B: EMISSIONS
22		
23	Section	
24	240.121	Smoke Emissions
25	240.122	Diesel Engine Emissions Standards for Locomotives
26	240.123	Liquid Petroleum Gas Fuel Systems
27	240.124	Vehicle Exhaust Emission Standards (Repealed)
28	240.125	Compliance Determination (Repealed)
29		
30	SUBI	PART C: SMOKE OPACITY STANDARDS AND TEST PROCEDURES
31		FOR DIESEL-POWERED HEAVY DUTY VEHICLES
32		
33	Section	
34	240.140	Applicability
35	240.141	Smoke Opacity Standards and Test Procedures for Diesel-Powered Heavy Duty
36		Vehicles
37		
38	SUBP.	ART D: STEADY-STATE IDLE MODE TEST EMISSION STANDARDS
39		
40	Section	
41	240.151	Applicability
42	240.152	Steady-State Idle Mode Vehicle Exhaust Emission Standards
43	240.153	Compliance Determination

44		
45	SUBP	ART E: TRANSIENT LOADED MODE TEST EMISSION STANDARDS
46		
47	Section	
48	240.161	Applicability (Repealed)
49	240.162	Vehicle Exhaust Emission Start-Up Standards (Repealed)
50	240.163	Vehicle Exhaust Emission Final Standards (Repealed)
51	240.164	Vehicle Exhaust Emission Fast-Pass Standards (Repealed)
52	240.165	Compliance Determination (Repealed)
53		<u>, </u>
54		SUBPART F: EVAPORATIVE TEST STANDARDS
55		
56	Section	
57	240.171	Applicability
58	240.172	Evaporative System Integrity Test Standards
59	240.173	Evaporative System Purge Test Standards (Repealed)
60		
61	SUBPA	ART G: ON-ROAD REMOTE SENSING TEST EMISSION STANDARDS
62		
63	Section	
64	240.181	Applicability
65	240.182	On-Road Remote Sensing Emission Standards
66	240.183	Compliance Determination
67		
68		SUBPART H: ON-BOARD DIAGNOSTIC TEST STANDARDS
69		
70	Section	
71	240.191	Applicability
72	240.192	On-Board Diagnostic Test Standards
73	240.193	Compliance Determination
74 75	040 4 DDENED	
75 76	240.APPEND	
76	240.APPEND	
77 70	240.TABLE A	I 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
78 70	240.TABLE B	1
79 80	240.TABLE C	Vehicle Exhaust Emission Fast-Pass Standards (Repealed)
81	ATTHORITY	: Implementing Sections 9 and 10 and authorized by Sections 27 and 28 of the
82	Environmenta	Protection Act [415 ILCS 5/9, 10, 27, and 28] and Section 13C-20 of the Vehicle
83		pection Law of 2005 [625 ILCS 5/13C-20].
84	Limbsions ma	Section Law of 2003 [023 ILCS 3/13C-20].
85	SOURCE: Ad	lopted as Chapter 2: Air Pollution, Part VII: Mobile Sources, filed and effective
86		c; codified at 7 Ill. Reg. 13628; amended in R85-25, at 10 Ill. Reg. 11277, effective
	r ', / -	,

87	June 16, 1986; amended in R90-20 at 16 Ill. Reg. 6184, effective April 7, 1992; amended in R94-
88	20 at 18 Ill. Reg. 18013, effective December 12, 1994; amended in R94-19 at 18 Ill. Reg. 18228,
89	effective December 20, 1994; amended in R98-24 at 22 Ill. Reg. 13723, effective July 13, 1998;
90	expedited correction at 22 Ill. Reg. 21120, effective July 13, 1998; amended in R01-12 at 24 Ill.
91	Reg. 19188, effective December 18, 2000; amended in R01-8 at 25 Ill. Reg. 3680, effective
92	February 26, 2001; amended in R02-8 at 25 Ill. Reg. 16379, effective December 18, 2001;
93	amended in R11-19 at 35 Ill. Reg, effective
94	
95	BOARD NOTE: This <u>Partpart</u> implements the Environmental Protection Act as of July 1, 1994.
96	
97	SUBPART A: DEFINITIONS AND GENERAL PROVISIONS
98	
99	Section 240.102 Definitions
100	
101	All terms that which appear in this Part have the definitions specified in this Section, the Vehicle
102	Emissions Inspection Law of 2005 [625 ILCS 5/13C], Part and 35 Ill. Adm. Code 201 and 211.
103	When Where conflicting definitions occur between this Section and 35 Ill. Adm. Code 201 or
104	211, the definitions of this Section apply in this Part.
105	
106	"Adjusted loaded vehicle weight ("ALVW") means the value of the vehicle curb
107	weight plus gross vehicle weight rating divided by two.
108	
109	"Agency" means the Illinois Environmental Protection Agency.
110	
111	"Diesel engine" means all types of internal-combustion engines in which air is
112	compressed to a temperature sufficiently high to ignite fuel injected directly into
113	the cylinder area.
114	
115	"Diesel locomotive" means a diesel engine vehicle designed to move cars on a
116	railway.
117	
118	"Evaporative system integrity test" means a test of a vehicle's evaporative system.
119	The test shall either consist of a leak check of a vehicle's fuel cap with a fuel cap
120	pressure decay tester (fuel cap pressure decay test), a fuel cap leak flow tester
121	(fuel cap leak flow test), or a visual functional check, as applicable.
122	
123	"Fuel cap" means a device used to seal a vehicle's fuel inlet.
124	
125	"Fuel cap leak flow test" means a test which may be performed in accordance
126	with this Part on a vehicle's fuel cap using a fuel cap leak flow tester to determine
127	whether the vehicle complies with the evaporative system emission standards of
128	this Part.
129	

130 "Fuel cap leak flow tester" means a device used to determine the leak flow 131 integrity of a vehicle's fuel cap by comparing the measured leak flow of the fuel 132 cap with an established fuel cap leak flow standard. 133 134 "Fuel cap pressure decay test" means the test performed in accordance with this 135 Part on a vehicle's fuel cap using a fuel cap pressure decay tester to determine 136 whether the vehicle complies with the evaporative system emission standards of 137 this Part. 138 139 "Fuel cap pressure decay tester" means a device used to determine the pressure 140 decay integrity of a vehicle's fuel cap by monitoring the pressure behind the fuel 141 cap for a ten second period and comparing the measured pressure decay of the 142 fuel cap to an established fuel cap pressure decay standard. 143 144 "Fuel cap visual functional test" means the test performed in accordance with this 145 Part on a vehicle's fuel cap using visual analysis to determine whether the vehicle 146 complies with the evaporative system emission standards of this Part. 147 148 "Full power position" means the throttle position at which the engine fuel delivery 149 is at maximum flow. 150 151 "Gross vehicle weight rating (GVWR)" means the value specified by the 152 manufacturer as the maximum design loaded weight of a single vehicle. 153 154 "Heavy duty vehicle" means any motor vehicle rated at more than 8500 pounds 155 GVWR or that has a vehicle curb weight of more than 6000 pounds or that has a 156 basic vehicle frontal area in excess of 45 square feet. 157 158 "High idle" means a vehicle operating condition with engine disconnected from 159 an external load (placed in either neutral or park) and operating at speed of 2500 160 ±300 RPM. 161 162 "IM240" means the transient-mass emissions inspection procedure that the 163 USEPA developed and has been implemented for use in the Illinois Enhanced 164 Vehicle Inspection and Maintenance Program. 240 refers to the 240 second 165 maximum duration of the driving cycle that the vehicle undergoes as it is positioned on the dynamometer and essentially driven for the purpose of 166 167 measuring the mass amount of emissions coming out of the tail pipe. 168 169 "Idle mode" means that portion of a vehicle emission test procedure conducted 170 with the engine disconnected from an external load and operating at minimum 171 throttle. 172

173 "Initial idle mode" means the first of up to two idle mode sampling periods during 174 a steady-state idle mode test, during which exhaust emission measurements are 175 made with the vehicle in "as-received" condition. 176 177 "Light duty truck 1" means a motor vehicle rated at 6000 pounds maximum 178 GVWR or less and which has a vehicle frontal area of 45 square feet or less, and 179 which is designed primarily for purposes of transportation of property or is a 180 derivation of such a vehicle, or is designed primarily for transportation of persons 181 and has a capacity of more than 12 persons, or is available with special features 182 enabling off-street or off-highway operation and use. 183 184 "Light duty truck 2" means a motor vehicle rated between 6001 and 8500 pounds 185 maximum GVWR and which has a vehicle frontal area of 45 square feet or less. 186 and which is designed primarily for purposes of transportation of property or is a derivation of such a vehicle, or is designed primarily for transportation of persons 187 188 and has a capacity of more than 12 persons, or is available with special features 189 enabling off-street or off-highway operation and use. 190 191 "Light duty vehicle" means a passenger car or passenger car derivative capable of 192 seating 12 passengers or fewer. 193 "Loaded mode" means that portion of a vehicle emission test procedure conducted 194 195 with the vehicle positioned and operating under load on a chassis dynamometer. 196 197 "Loaded vehicle weight (LVW)" means the vehicle curb weight plus 300 pounds. 198 199 "Measured values" means five-second running averages of exhaust emission 200 concentrations sampled at a minimum rate of twice per second. 201 202 "Model year" means the year of manufacture of a motor vehicle based upon the 203 annual production period as designated by the manufacturer and indicated on the 204 title and registration of the vehicle. If the manufacturer does not designate a 205 production period for the vehicle, then "model year" means the calendar year of 206 manufacture. 207 "Motor vehicle" as used in this Part, shall have the same meaning as in Section 1-208 209 146 of the Illinois Vehicle Code [625 ILCS 5/1-146]. 210 211 "Opacity" means the percentage of light transmitted from a source that is 212 prevented from reaching a light detector. 213

"Preconditioning mode" means a period of steady-state loaded mode or high-idle

operation conducted to ensure that the engine and emissions control system

4

214

215

216 217		components are operating at normal operating temperatures, thus minimizing false failures caused by improper or insufficient warm-up.
218		initiates enabled by improper of insurficient warm-up.
219		"Second-chance idle mode" means the second of two idle mode sampling periods
220		during a steady-state idle mode test, preceded by a preconditioning mode and
221		utilized as a second chance to pass idle exhaust emission standards immediately
222		following an initial idle mode failure.
223		Tollowing all lilitial fulle filode famule.
224		"Chan application test" moons a test to measure avilable and a series for the
225		"Snap-acceleration test" means a test to measure exhaust smoke opacity from
226		heavy-duty diesel powered vehicles in accordance with the SAE J1667 procedure,
227		incorporated by reference at Section 240.107 of this Subpart.
228		IICtooder state idle teetil meene e welliele weight at the teet was a few weight.
		"Steady-state idle test" means a vehicle emission test procedure consisting of an
229		initial idle mode measurement of exhaust emissions followed, if necessary, by a
230		loaded or high idle preconditioning mode and a second-chance idle mode.
231		HT ' 41 1 1 1 4 (H. HT) 50 40 4 (L. H. H. L. T) 50 40 1 1 1 1 1
232		"Transient loaded mode test" or "IM240 testing" or "transient IM240 loaded mode
233		exhaust emission test procedure" or "transient IM 240 test procedure" means a
234		vehicle emissions test run on an inertial and power absorbing dynamometer using
235		USEPA's IM240 driving cycle consisting of accelerations and decelerations
236		simulating on road driving conditions.
237		
238		"Vehicle curb weight" means the actual vehicle weight plus standard equipment
239		and a full fuel tank.
240	40	
241	(Sour	ce: Amended at 35 Ill. Reg, effective)
242		
243	Section 240.	104 Inspection
244	#1	
245	a)	All motor vehicles subject to inspection pursuant to Section 13 <u>C</u> B-15 of the
246		Vehicle Emissions Inspection Law of 20051995 [625 ILCS 5/13CB-15] shall
247		comply with applicable vehicle emission standards contained in Sections 240.152,
248		240.162, 240.163, 240.172, 240.182, and 240.192 of this Part.
249		
250	b)	All diesel-powered vehicles subject to inspection pursuant to Section 13-109.1 of
251		the Illinois Vehicle Code [625 ILCS 5/13-109.1] must comply with applicable
252		smoke opacity standards set forth in Section 240.141(a) of this Part.
253		
254	(Sour	ce: Amended at 35 Ill. Reg, effective)
255	-	
256 257	Section 240.1	105 Penalties
257 258	a)	Any violations of Sections 240.103, 240.121, 240.122, <u>orand-240.123</u> of this Part

259		shall be subject to the penalties as set forth in Section 42 of the Act [415 ILCS
260		5/42].
261		
262	b)	Any violations of Sections 240.104(b), 240.152, 240.162, 240.163, 240.172 ,
263		240.182, orand-240.192 of this Part shall be subject to the penalties as set forth in
264		Sections 13 <u>CB</u> -55 and 13 <u>CB</u> -60 of the Vehicle Emissions Inspection Law [625
265		ILCS $5/13\underline{CB}$ -55 and $13\underline{CB}$ -60].
266		
267	c)	Any violation of Section 240.141(a) of this Part will be subject to penalties as set
268		forth in Section 13-109.1 of the Illinois Vehicle Code [625 ILCS 5/13-109.1].
269		
270	(Sour	rce: Amended at 35 Ill. Reg, effective)
271		
272	Section 240.	106 Determination of Violation
273		
274	a)	Any violations of <u>Sections Section</u> 240.103, 240.121, 240.122, <u>orand-240.123</u> of
275		this Part shall be determined by visual observation or by a test procedure
276		employing an opacity measurement system as qualified by 35 Ill. Adm. Code 201
277		Subpart J.
278	1.)	Americal edition of Continuo C
279 280	b)	Any violations of Sections Section 240.152, 240.162, 240.163, 240.172, 240.182,
280 281		or 240.192 of this Part shall be determined in accordance with test procedures
282		adopted by the Agency in 35 Ill. Adm. Code 276.
283	c)	Any violation of Section 240.141(a) of this Part will be determined in accordance
284	C)	with test procedures set forth in Section 240.141(b) of this Part.
285		with test procedures set form in Section 240.141(b) of this Part.
286	(Sour	ce: Amended at 35 Ill. Reg, effective
287	(Bour	oo. Tanondod at 55 m. Rog, oncouve
288	Section 240.	107 Incorporations by Reference
289	200000000000000000000000000000000000000	207 Indipolations by Release
290	The followin	g material ismaterials are incorporated by reference and includesinclude no later
291	editions or an	
292		
293		
294		5-0001, www.sae.org: Report J1667 Snap-Acceleration Smoke Test Procedure for
295		y-Duty Diesel Powered Vehicles (February 1996).
296		
297	b)	United States Environmental Protection Agency (USEPA), "High Tech I/M Test
298		Procedures, Emission Standards, Quality Control Requirements, and Equipment
299		Specifications: IM240 and Functional Evaporative System Tests, Revised
300		Technical Guidance," Report EPA AA-RSPD IM-96-1 (June 1996), 2565
301		Plymouth Road, Ann Arbor, MI 48105.

302							
303	(Sou	rce: Amended at 35 Il	l. Reg, effective)			
304			-				
305 306	SUB	PART D: STEADY-S	STATE IDLE MODE TE	ST EMISSION STANDARDS			
300 307	Section 240	.151 Applicability					
308	Section 240	.131 Applicability					
309	The standar	de of this Subnert Don	mly to thospall yeshiolog i	dontified in subsection 12C			
310	25(d)inched	ed upon implementati	on of the Vehicle Emissis	dentified in subsection 13C-	4		
311	25(d)inspected upon implementation of the Vehicle Emissions Inspection Law of 20051995 and identified in Subsections 13B-25(c) and (d) of that law utilizing steady state exhaust emission						
312		res adopted by the Ag		zing steady state exhaust emission	ł		
313	test procedu	res adopted by the righ	oney.				
314	(Sou	rce: Amended at 35 II	l. Reg, effective)			
315	(bou	ree. 7 milended at 33 ii	ii. Rog, circonve				
316	Section 240	.152 Steady-State Id	le Mode Vehicle Exhaus	et Emission Standards			
317		.132 Steady State 14	ic viode venicle Danaus	t Emission Standards			
318	a)	Exhaust emissions	from light duty vehicles s	hall not exceed the following			
319	/	limitations:		man not exceed the following			
320							
		Model Year	Carbon Monoxide	Hydrocarbons as Hexane			
			(%)	(ppm)			
		1968 - 1971	9.0	900			
		1972 1974	8.0	800			
		1975 - 1977	7.0	700			
		1978 1979	6.0	600			
		1980	3.0	300			
		1996 1981 and	1.2	220			
		newer later	¥				
321							
322	b)	Exhaust emissions	from light duty trucks 1 a	nd light duty trucks 2 shall not			
323	•	exceed the followin					
324							
		Model Year	Carbon Monoxide	Hydrocarbons as Hexane			
			(%)	(ppm)			
		1968 1971	9.0	900			
		1972 1974	8.0	800			
		1975 - 1978	7.0	700			
		1979 - 1980	6.0	600			
		19961981 and	1.2	220			
		<u>newerlater</u>					
325							
326	c)	Exhaust emissions	from heavy duty vehicles	shall not exceed the following			
327		limitations:	-	•			

			JCAR350240-1100129r01
220			
328	M - 4-1 X7	C. 1 3.4 ! 1.	TT 1 1 TT
	Model Year	Carbon Monoxide	Hydrocarbons as Hexane
	1060 1071	(%)	(ppm)
	1968 - 1971	9.5	1500
	1972 - 1978	9.0	900
	1979 - 1984	7.0	700
	<u>1996</u> 1985 and	3.0	300
	<u>newer</u> later		
329			
330	(Source: Amended at 35 Ill. I	Reg, effective	
331			
332	Section 240.153 Compliance Deter	mination	
333			
334	Compliance shall be determined base		
335	steady-state idle test while the vehicle		
336	shall pass exhaust emissions inspection	on if at any time during	g the initial idle mode or second-
337	chance idle mode of the steady-state i	idle test the measured	values are at or below the applicable
338	limits of Section 240.152 of this Subj	part. Vehicles failing t	he initial idle mode shall undergo a
339	loaded or high idle preconditioning m	node and receive a seco	ond-chance idle mode unless no
340	measured values less than 1800 ppm		
341	×		-
342	(Source: Amended at 35 Ill. I	Reg. , effective)
343			
344	SUBPART E: TRANSIENT	LOADED MODE TES	ST EMISSION STANDARDS
345			
346	Section 240.161 Applicability (Rep	ealed)	
347			
348	The standards of this Subpart apply to	model year 1981 and	newer light duty vehicles, light duty
349	trucks 1, and light duty trucks 2 which	•	
350	exhaust emission test procedures ado		
351	1		
352	(Source: Repealed at 35 Ill. R	Reg. effective)
353	(,	
354	Section 240.162 Vehicle Exhaust E	mission Start-Up Sta	ndards (Renealed)
355			<u> </u>
356	Vehicle exhaust emission start-up sta	andards contained in S	ection 240 Table A of this Part shall
357	apply for all vehicles subject to inspe		
358	onward, these standards shall continu		
359	LDV, LDT1, and LDT2 vehicles. All	~	
360	Le , Le II, and Le II vomoios. Tin	sumum as are expresse	A III Brains per inne (Spin).
361	(Source: Repealed at 35 Ill. R	leg effective)
362	(Source: Repeated at 33 III. I	,	

Section 240.163 Vehicle Exhaust Emission Final Standards (Repealed)

362363

364 365 Beginning February 1, 2001, vehicle exhaust emission final standards contained in Section 366 240. Table B of this Part shall apply for all vehicles subject to except for model year 1981 through model year 1987 LDV, LDT1, and LDT2 vehicles, which shall continue to use the 367 368 standards contained in Section 240. Table A of this Part as described in Section 240.162. All 369 standards are expressed in grams per mile (gpm). 370 371 (Source: Repealed at 35 Ill. Reg., effective) 372 373 Section 240.164 Vehicle Exhaust Emission Fast-Pass Standards (Repealed) 374 375 Vehicle exhaust emissions fast pass standards contained in Section 240. Table C of this Part will 376 apply for all vehicles subject to inspection under Section 240:161 of this Part utilizing the IM240 377 transient loaded mode exhaust emission test procedures that have been adopted by the Agency in 378 35 Ill. Adm. Code 276. All standards are expressed as the cumulative grams for each second of 379 the composite and Phase 2 tests. 380 381 (Source: Repealed at 35 Ill. Reg., effective) 382 Section 240.165 Compliance Determination (Repealed) 383 384 385 a) Vehicle Exhaust Emission Start-Up and Final Standards - Compliance shall be 386 determined based upon the measurement of exhaust emissions while operating the 387 vehicle on a dynamometer and following the driving cycle as specified for the 388 transient IM240 test procedures adopted by the Agency. If the corrected, 389 composite emission rates exceed standards for any pollutant, additional analysis 390 of test results shall review the second phase ("Phase 2") of the driving cycle 391 separately. Phase 2 shall include second 94 through second 239 of the driving 392 cycle. Second-by second emission rates in grams and composite emission rates in 393 grams per mile for Phase 2 and for the entire composite test shall be recorded for 394 each pollutant. For any given pollutant, if the composite emission level is at or 395 below the composite standard or if the Phase 2 grams per mile emission level is at 396 or below the applicable Phase 2 standard, then the vehicle shall pass the test for 397 that pollutant. Composite and Phase 2 emission rates shall be calculated in 398 accordance with procedures specified in "High-Tech I/M Procedures, Emissions 399 Standards, Quality Control Requirements, and Equipment Specifications: IM240 400 and Functional Evaporative System Tests, Revised Technical Guidance", 401 incorporated by reference at Section 240.107(c) of this Part. 402 403 Vehicle Exhaust Emission Fast Pass Standards Compliance will be determined b) 404 based upon the measurement of exhaust emissions while operating the vehicle on 405 a dynamometer and following the driving cycle as specified for the transient

IM240 test procedures adopted by the Agency. Vehicles will be fast-passed using

406

407	the f	ollowing	g algorithm:
408			
409	1)	Begir	ming at second 30 of the driving cycle, cumulative second by second
410		emiss	sion levels for each second, calculated from the start of the cycle in
411		gram	s, will be compared to the cumulative fast-pass emission standards
412			e second under consideration. Beginning at second 109, fast pass
413		decisi	ions are based upon analysis of cumulative emissions in Phase 2, the
414			on of the test beginning at second 94, as well as emission levels
415			nulated from the beginning of the composite test.
416			<i>S S</i>
417	2)	A vel	nicle will pass the transient IM240 test for a given pollutant if either
418	-/		e following conditions occurs:
419		01 111	. 10110 11115 00101111111111111111111111
420		A)	cumulative emissions of the pollutant are below the full cycle fast-
421		/	pass standard for the second under consideration; or
422			pass standard for the second under consideration, or
423		B)	at second 109 and later, cumulative Phase 2 emissions are below
424		D)	the Phase 2 fast pass standards for the second under consideration.
425			the Thuse 2 fast pass standards for the second and of consideration.
426	3)	Tectir	ng may be terminated when fast pass criteria are met for all subject
427	5)		tants in the same second.
428		ponui	tuits in the sume second.
429	4)	If a fa	ast pass determination cannot be made for all subject pollutants
430	7)		e the driving cycle ends, the pass/fail determination for each
431			onent will be based on composite or Phase 2 emissions over the full
432		_	eg cycle according to the procedures in subsection (a) of this Section.
433			ses where fast pass standards are not used, composite emission rates
434			are not used pass standards are not used, composite emission rates are per mile for Phase 2 and for the entire composite test will be
435		_	ded for each pollutant.
436		100010	act for each ponutain:
437	5)	Comr	posite and Phase 2 emission rates will be calculated in accordance
438	ग	_	
439			procedures specified in "High Tech I/M Procedures, Emissions ards, Quality Control Requirements, and Equipment Specifications:
440			0 and Functional Evaporative System Tests, Revised Technical
441			ance" incorporated by reference at Section 240.107(c) of this Part.
442		Guidi	ince-incorporated by reference at section 240.107(c) of this Part.
442	(Caumaa, Da		4.25 III Day - 65-4
444	(Source: Re	peated a	t 35 Ill. Reg, effective)
445		CIIDD	ADT E. EMADOD ATIME TEST STANDARDS
446		SUBPA	ART F: EVAPORATIVE TEST STANDARDS
447	Section 240.171 A ₁	nnliaah:	lity
448	Section 240.1/1 A	ppneant	iity
449	The standards of thi	c Siihna	rt apply to those vehicles identified in subsection 13C-25(d) of the
ーエーフ	THE STANDARDS OF UII	o Duupai	trapply to mose veincles identified in subsection 13C-23(d) of the

1 50	Vehicle Emissions	Inspection Law of 2005T	he standards of Section 2	40.172 of this Subpart shall				
15 1								
152		porative emission control (
153								
154	(Source: A	mended at 35 Ill. Reg	, effective)				
155								
156	SUBPART	G: ON-ROAD REMOTE	SENSING TEST EMISS	SION STANDARDS				
157	G 0.10.101							
158	Section 240.181 Applicability							
159	The standards of the		.11 1 1 4 4 1					
160 161		nis Subpart apply to those						
162	road remote sensin	enicle Emissions inspections exhaust emission test pr	on Law of 2005 which are	inspected utilizing the on-				
163	Ill. Adm. Code 276		ocedures mat will be ado	pted by the Agency in 33				
164	III. Haiii. Codo 270	7.						
165	(Source: A	mended at 35 Ill. Reg.	effective)				
166	(20000000000000000000000000000000000000		, 011001110	-				
167	Section 240.182 (On-Road Remote Sensing	Emission Standards					
68		•	,					
69	Exhaust emissions	from all subject vehicles a	and trucks shall not excee	d the following				
ŀ70	limitations:			_				
171								
	Model Year	Hydrocarbons	Carbon Monoxide					
		(ppm)	(%)					
	1996 and	400	2.0					
	<u>newer</u> 1992+							
	1988 - 1991	450	3.0					
	1001 1005	<						
	1981 1987	650	5.0					
	1075 1000	1200	7 ^					
	1975 - 1980	1300	7.0					
	1968 1974	1700	0.0					
72	1700 - 17/4	1700	8.0					
73	(Source: A	mended at 35 Ill. Reg.	effective	,				
74	(bource, A	mended at 33 m. Reg.	, effective					
75	SUI	BPART H: ON-BOARD	DIAGNOSTIC TEST ST	ANDARDS				
76		SUBPART H: ON-BOARD DIAGNOSTIC TEST STANDARDS						
77	Section 240.191 A	Applicability						
78								
79				o subsection 13C-25(c) of				
80								

481	light duty trucks 1, and light duty trucks 2 that are required to meet the standards contained in 40
482	CFR 86.094 17 and which are inspected utilizing the on-board diagnostic test procedures
483	contained in 35 Ill. Adm. Code 276.209. Vehicles that receive a result of fail do not thereby fail
484	their emissions test until January 1, 2002.
485	
486	(Source: Amended at 35 Ill. Reg, effective)

Section 240.TABLE A Vehicle Exhaust Emission Start-Up Standards (Repealed)

Light Duty Vehicles:

487 488

2.5 2 aty vointele						
Model Years	del Years Hydrocarbons Carbon Monoxide		Oxides of Nitrogen			
	Composite (gpm)	Phase 2 (gpm)	Composite (gpm)	Phase 2 (gpm)	Composite (gpm)	Phase 2 (gpm)
1996+	0.80	0.50	15.0	12.0	2.0	Reserved
1991-1995	1.20	0.75	20.0	16.0	2.5	Reserved
1983-1990	2.00	1.25	30.0	24.0	3.0	Reserved
1981-1982	2.00	1.25	60.0	48.0	3.0	Reserved
Light Duty Trucks 1:						
Model-Years	Hydroca	erbons	Carbon Monoxide		Oxides of Nitrogen	
	Composite	Phase 2	Composite	Phase 2	Composite	Phase 2
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)
1996 +						
(≤ 3750 LVW)	0.80	0.50	15.0	12.0	2.0	Reserved
(>3750 LVW)	1.00	0.63	20.0	16.0	2.5	Reserved
1991-1995	2.40	1.50	60.0	48.0	3.0	Reserved
1988-1990	3.20	2.00	80.0	64.0	3.5	Reserved
1984-1987	3.20	2.00	80.0	64.0	7.0	Reserved
1981 1983	7.50	5.00	100.0	80.0	7.0	Reserved
Light Duty Trucks	2:					
Model Years	Hydro	ocarbons	Carbon Monoxide		Oxides of Nitrogen	
	Composit		1	e Phase 2	F	Phase 2
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)
1996+						
(≤ 5750 ALVW)	1.00	0.63	20.0	16.0	2.5	Reserved
(= 5.55 AT XXXX)	2.00	1.50	20.0	10.0	2.5	10001100

(>5750 ALVW)

1991-1995

1988-1990

1984 1987

1981-1983

2.40

2.40

3.20

3.20

7.50

1.50

1.50

2.00

2.00

5.00

60.0

60.0

0.08

0.08

100.0

48.0

48.0

64.0

64.0

0.08

4.0

4.5

5.0

7.0

7.0

Reserved

Reserved

Reserved

Reserved

Reserved

490

(Source: Repealed at 35 Ill. Reg. _____, effective _____)

Section 240.TABLE B Vehicle Exhaust Emission Final Standards (Repealed)

Light Duty Vehicles:

491

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Model Years	Hydroc	arbons	Carbon M	onoxide	Oxides of Nitrogen	
	Composite (gpm)	Phase 2 (gpm)	Composite (gpm)	Phase 2 (gpm)	Composite (gpm)	Phase 2 (gpm)
1996+	0.60	0.40	10.0	8.0	1.5	Reserved
1983-1995	0.80	0.50	15.0	12.0	2.0	Reserved
1981-1982	0.80	0.50	30.0	24.0	2.0	Reserved
Light Duty Trucks	L:					
Model Years	Hydroc	arbons	Carbon M	onoxide	Oxides of	`Nitrogen
	Composite (gpm)	Phase 2	Composite (gpm)	Phase 2	Composite (gpm)	Phase 2
1996+	(8))	(8111)	(85111)	(SP111)	(gpiii)	(Spin)
	0.60	0.40	10.0	0.0	1.7	D 1
(≤ 3750 LVW)	0.60	0.40	10.0	8.0	1.5	Reserved
(>3750 LVW) 1988 1995	0.80	0.50	13.0	10.0	1.8	Reserved
	1.60	1.00	4 0.0	32.0	2.5	Reserved
1984-1987	1.60	1.00	40.0	32.0	4.5	Reserved
1981 1983	3.40	2.00	70.0	56.0	4.5	Reserved
Light Duty Trucks 2	<u>.</u> .					
Model Years	Hydroca	arbons	Carbon M	onoxide	Oxides of	'Nitrogen
	Composite	Phase 2	Composite	Phase 2	Composite	Phase 2
	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)	(gpm)
1996+						
(≤ 5750 LVW	0.80	0.50	13.0	10.0	1.8	Reserved
(>5750 LVW)	0.80	0.50 0.50	15.0 15.0	12.0	2.0	Reserved
1988-1995	1.60	1.00	40.0	32.0	3.5	Reserved
1984-1987	1.60	1.00	40.0	32.0	3.3 4.5	Reserved
1981 1983	3.40	2.00	70.0	56.0	4.5	Reserved
	5.10	2.00	70.0	50.0	ਜਹ	ICOSOI VOG
(Source: Re	pealed at 35 II	l. Reg.	, effective)	

493 494

(Source: Repealed at 35 Ill. Reg. _____, effective _____)

Section 240.TABLE C Vehicle Exhaust Emission Fast-Pass Standards (Repealed)

a) Vehicles having composite hydrocarbon emission limitations of less than 1.25 grams per mile, in Section 240.Table A or Section 240.Table B, shall use the hydrocarbon fast pass standards contained in this subsection. Vehicles having composite carbon monoxide emission limitations of less than 20.0 grams per mile, in Section 240.Table A or Section 240.Table B, shall use the carbon monoxide fast-pass standards contained in this subsection:

	Hydrocarbons		Carbon Monoxide		
Second	Composite	Phase 2	Composite	Phase 2	
30	0.124	N/A	0.693	N/A	
31	0.126	N/A	0.773	N/A	
32	0.129	N/A	0.837	N/A	
33	0.135	N/A	0.851	N/A	
34	0.140	N/A	0.853	N/A	
35	0.146	N/A	0.857	N/A	
36	0.150	N/A	0.900	N/A	
37	0.153	N/A	0.960	N/A	
38	0.156	N/A	1.034	N/A	
39	0.160	N/A	1.070	N/A	
40	0.165	N/A	1.076	N/A	
41	0.169	N/A	1.083	N/A	
42	0.172	N/A	1.102	N/A	
43	0.173	N/A	1.111	N/A	
44	0.177	N/A	1.114	N/A	
45	0.197	N/A	1.157	N/A	
46	0.200	N/A	1.344	N/A	
47	0.208	N/A	1.482	N/A	
48	0.221	N/A	1.530	N/A	
49	0.232	N/A	1.542	N/A	
50	0.235	N/A	1.553	N/A	
51	0.238	N/A	1.571	N/A	
52	0.240	N/A	1.595	N/A	
53	0.242	N/A	1.633	N/A	
5 4	0.246	N/A	1.685	N/A	
55	0.249	N/A	1.689	N/A	
56	0.252	N/A	1.693	N/A	
57	0.261	N/A	1.700	N/A	
58	0.271	N/A	1.723	N/A	
59	0.276	N/A	1.852	N/A	
60	0.278	N/A	1.872	N/A	
61	0.280	N/A	1.872	N/A	

62	0.282	N/A	1.872	N/A
63	0.283	N/A	1.900	N/A
64	0.284	N/A	1.917	N/A
65	0.285	N/A	1.944	N/A
66	0.286	N/A	2.000	N/A
67	0.288	N/A	2.060	N/A
68	0.291	N/A	2.064	N/A
69	0.294	N/A	2.076	N/A
70	0.296	N/A	2.104	N/A
71	0.298	N/A	2.117	N/A
72	0.300	N/A	2.125	N/A
73	0.302	N/A	2.130	N/A
74	0.304	N/A	2.138	N/A
75	0.307	N/A	2.152	N/A
76	0.308	N/A	2.170	N/A
77	0.308	N/A	2.188	N/A
78	0.308	N/A	2.200	N/A
79	0.314	N/A	2.212	N/A
80	0.320	N/A	2.212	N/A
81	0.324	N/A	2.221	N/A
82	0.327	N/A	2.222	N/A
83	0.329	N/A	2.227	N/A
84	0.333	N/A	2.236	N/A
85	0.336	N/A	2.243	N/A
86	0.339	N/A	2.262	N/A
87	0.343	N/A	2.271	N/A
88	0.347	N/A	2.284	N/A
89	0.350	N/A	2.299	N/A
90	0.356	N/A	2.308	N/A
91	0.358	N/A	2.326	N/A
92	0.360	N/A	2.330	N/A
93	0.363	N/A	2.331	N/A
94	0.367	N/A	2.344	N/A
95	0.370	N/A	2.347	N/A
96	0.372	N/A	2.355	N/A
97	0.376	N/A	2.395	N/A
98	0.388	N/A	2.451	N/A
99	0.396	N/A	2.508	N/A
100	0.405	N/A	2.590	N/A
101	0.410	N/A	2.660	N/A
102	0.411	N/A	2.749	N/A
103	0.412	N/A	2.913	N/A
104	0.413	N/A	3.162	N/A
			-	

105	0.421	N/A	3.170	N/A
106	0.428	N/A	3.197	N/A
107	0.430	N/A	3.288	N/A
108	0.455	N/A	3/419	N/A
109	0.459	0.015	3.587	0.168
110	0.462	0.017	3.595	0.173
111	0.464	0.021	3.640	0.237
112	0.466	0.024	3.740	0.266
113	0.468	0.024	3.868	0.280
114	0.471	0.025	3.877	0.291
115	0.488	0.026	3.93 4	0.314
116	0.513	0.029	4.015	0.331
117	0.538	0.032	4 .061	0.350
119	0.577	0.035	4.079	0.356
120	0.580	0.036	4.140	0.367
121	0.586	0.038	4.185	0.388
122	0.594	0.040	4.199	0.407
123	0.603	0.041	4.205	0.463
124	0.610	0.042	4.212	0.480
125	0.615	0.042	4.323	0.506
126	0.624	0.042	4.298	0.518
127	0.628	0.045	4.344	0.522
128	0.632	0.046	4.361	0.525
129	0.637	0.046	4.366	0.528
130	0.641	0.049	4 .369	0.530
131	0.643	0.050	4.372	0.530
132	0.644	0.052	4.435	0.534
133	0.645	0.054	4.523	0.550
134	0.647	0.054	4.524	0.544
135	0.651	0.054	4.525	0.590
136	0.658	0.055	4.531	0.616
137	0.663	0.055	4.534	0.639
138	0.666	0.056	4.542	0.653
139	0.668	0.059	4.553	0.662
140	0.670	0.061	4.554	0.683
141	0.672	0.061	4.554	0.696
142	0.675	0.061	4.554	0.708
143	0.678	0.063	4.554	0.721
144	0.681	0.064	4.554	0.739
145	0.684	0.065	4.554	0.742
146	0.686	0.066	4.554	0.743
147	0.688	0.067	4.554	0.745
148	0.690	0.068	4.554	0.748

149	0.692	0.069	4.554	0.751
150	0.694	0.070	4.554	0.762
151	0.696	0.071	4 .556	0.789
152	0.698	0.072	4.556	0.790
153	0.700	0.073	4.565	0.794
154	0.702	0.073	4.612	0.799
155	0.704	0.074	4.834	0.805
156	0.706	0.077	5.702	0.842
157	0.708	0.079	5.841	0.990
158	0.710	0.082	6.170	1.038
159	0.712	0.082	6.670	1.357
160	0.716	0.086	7.425	1.455
161	0.750	0.095	8.379	1.546
162	0.784	0.107	9.648	1.824
163	0.805	0.115	10.918	2.746
164	0.840	0.122	12.157	3.073
165	0.853	0.127	12.731	3.633
166	0.874	0.159	12.831	4.505
167	0.903	0.186	12.892	4.952
168	0.910	0.189	12.932	5.254
169	0.914	0.200	13.702	5.730
170	0.916	0.220	14.139	6.051
171	0.919	0.236	14.964	6.333
172	0.931	0.247	15.704	6.490
173	0.948	0.257	16.253	6.796
174	0.983	0.267	16.907	7.205
175	1.018	0.283	17.655	8.151
176	$\frac{1.027}{1.027}$	0.295	18.020	8.230
177	1.035	0.312	18.349	8.584
178	1.051	0.318	18.671	8.800
179	1.074	0.323	18.972	8.847
180	1.084	0.337	19.228	8.913
181	1.099	0.345	20.123	9.122
182	1.121	0.350	20.405	9.532
183	1.132	0.359	20.754	10.256
184	1.152	0.387	21.684	10.862
185	1.161	0.398	21.955	10.996
186	1.168	0.400	22.650	11.206
187	1.175	0.402	22.989	11.514
188	1.181	0.405	23.535	11.894
189	1.188	0.418	23.876	12.019
190	1.203	0.429	24.018	12.170
191	1.219	0.442	24.464	12.517

192	1.233	0.457	24.685	12.598
193	1.251	0.473	24.931	12.625
194	1.255	0.487	25.188	12.653
195	1.258	0.501	25.468	12.777
196	1.265	0.510	25.627	12.906
197	1.280	0.512	25.746	12.989
198	1.293	0.514	25.850	13.060
199	1.301	0.516	26.974	13.165
200	1.313	0.518	26.141	13.242
201	1.324	0.527	26.225	13.412
202	1.332	0.540	26.338	13.662
203	1.341	0.547	26.547	13.773
204	1.357	0.553	26.818	13.942
205	1.35	0.559	27.052	14.090
206	1.392	0.563	27.393	14.224
207	1.408	0.567	27.501	14.426
208	1.422	0.571	27.632	14.498
209	1.433	0.575	27.803	14.776
210	1.443	0.579	27.953	14.907
211	1.453	0.595	28.205	14.916
212	1.463	0.605	28.543	15.014
213	1.468	0.614	28.997	15.221
214	1.470	0.622	29.000	15.472
215	1.474	0.627	29.005	15.555
216	1.478	0.638	29.081	15.652
217	1.481	0.643	29.281	15.969
218	1.484	0.643	29.483	16.028
219	1.487	0.645	29.734	16.375
220	1.490	0.651	29.803	16.487
221	1.493	0.655	29.821	16.524
222	1.504	0.663	29.847	16.578
223	1.522	0.671	29.862	16.684
22 4	1.547	0.675	29.873	16.755
225	1.549	0.684	30.008	16.770
226	1.562	0.694	30.126	16.805
227	1.574	0.701	30.127	16.865
228	1.579	0.702	30.127	16.960
229	1.584	0.708	30.208	16.960
230	1.589	0.708	30.314	16.962
231	1.590	0.709	30.323	16.988
232	1.596	0.710	30.325	17.072
233	1.598	0.710	30.368	17.094
234	1.604	0.711	30.411	17.184

235	1.610	0.712	30.416	17.187
236	1.612	0.712	30.428	17.188
237	1.613	0.712	30.430	17.189
238	1.614	0.713	30.452	17.241
239	1.615	0.716	30.488	17.370

b)

Vehicles having composite hydrocarbon emission limitations of at least 1.25 grams per mile but less than 2.00 grams per mile, in Section 240. Table A or Section 240. Table B, shall use the hydrocarbon fast pass standards contained in this subsection. Vehicles having composite carbon monoxide emission limitations of at least 20.0 grams per mile but less than 30.0 grams per mile, in Section 240. Table A or Section 240. Table B, shall use the carbon monoxide fast pass standards contained in this subsection:

	Hydroca	rbons	Carbon Monoxide	
Second	Composite	Phase 2	Composite	Phase 2
30	0.247	N/A	1.502	N/A
31	0.253	N/A	1.546	N/A
32	0.258	N/A	1.568	N/A
33	0.263	N/A	1.582	N/A
34	0.268	N/A	1.593	N/A
35	0.277	N/A	1.602	N/A
36	0.283	N/A	1.621	N/A
37	0.293	N/A	1.631	N/A
38	0.297	N/A	1.702	N/A
39	0.298	N/A	1.784	N/A
40	0.313	N/A	1.879	N/A
41	0.320	N/A	2.162	N/A
42	0.327	N/A	2.307	N/A
43	0.342	N/A	2.343	N/A
44	0.360	N/A	2.376	N/A
45	0.376	N/A	2.406	N/A
4 6	0.389	N/A	2.433	N/A
47	0.408	N/A	2.458	N/A
48	0.423	N/A	2.483	N/A
4 9	0.434	N/A	2.774	N/A
50	0.444	N/A	2.844	N/A
51	0.454	N/A	2.900	N/A
52	0.465	N/A	2.936	N/A
53	0.472	N/A	3.133	N/A
54	0.478	N/A	3.30 4	N/A
55	0.485	N/A	3.407	N/A
56	0.493	N/A	3.456	N/A

57	0.500	N/A	3.480	N/A
58	0.505	N/A	3.518	N/A
59	0.514	N/A	3.560	N/A
60	0.537	N/A	3.593	N/A
61	0.540	N/A	3.628	N/A
62	0.543	N/A	3.641	N/A
63	0.546	N/A	3.655	N/A
6 4	0.551	N/A	3.680	N/A
65	0.559	N/A	3.700	N/A
66	0.567	N/A	3.728	N/A
67	0.575	N/A	3.857	N/A
68	0.588	N/A	3.894	N/A
69	0.595	N/A	3.943	N/A
70	0.601	N/A	3.983	N/A
71	0.606	N/A	4 .009	N/A
72	0.610	N/A	4.023	N/A
73	0.617	N/A	4.023	N/A
74	0.631	N/A	4.053	N/A
75	0.643	N/A	4 .063	N/A
76	0.651	N/A	4.077	N/A
77	0.659	N/A	4.225	N/A
78	0.667	N/A	4.243	N/A
79	0.676	N/A	4.260	N/A
80	0.681	N/A	4.282	N/A
81	0.685	N/A	4.322	N/A
82	0.689	N/A	4.398	N/A
83	0.694	N/A	4.482	N/A
84	0.700	N/A	4.515	N/A
85	0.705	N/A	4.518	N/A
86	0.709	N/A	4.520	N/A
87	0.713	N/A	4.522	N/A
88	0.717	N/A	4.522	N/A
89	0.721	N/A	4.523	N/A
90	0.724	N/A	4.526	N/A
91	0.727	N/A	4.527	N/A
92	0.729	N/A	4.527	N/A
93	0.731	N/A	4.528	N/A
9 4	0.734	N/A	4.528	N/A
95	0.740	N/A	4.528	N/A
96	0.748	N/A	4.529	N/A
97	0.759	N/A	4.575	N/A
98	0.771	N/A	4.703	N/A
99	0.783	N/A	4.805	N/A

100	0.793	N/A	4.886	N/A
101	0.810	N/A	4.957	N/A
102	0.823	N/A	5.104	N/A
103	0.836	N/A	5.340	N/A
104	0.853	N/A	5.496	N/A
105	0.871	N/A	5.625	N/A
106	0.887	N/A	5.815	N/A
107	0.899	N/A	6.473	N/A
108	0.931	N/A	7.037	N/A
109	0.947	0.040	7.419	0.246
110	0.957	0.047	7.643	0.257
111	0.965	0.052	7.759	0.286
112	0.971	0.056	7.824	0.379
113	0.977	0.061	7.889	0.425
114	0.983	0.064	7.960	0.457
115	1.003	0.072	8.02 4	0.477
116	1.030	0.081	8:076	0.494
117	1.041	0.082	8.111	0.504
118	1.050	0.083	8.130	0.512
119	1.052	0.092	8.148	0.519
120	1.055	0.094	8.211	0.529
121	1.061	0.097	8.478	0.529
122	1.071	0.100	8.548	0.530
123	1.081	0.103	8.561	0.531
124	1.091	0.106	8.568	0.532
125	1.102	0.108	8.572	0.533
126	1.110	0.110	8.584	0.548
127	1.116	0.112	8.592	0.610
128	1.121	0.114	8.596	0.614
129	1.125	0.116	8.597	0.622
130	1.128	0.118	8.601	0.631
131	1.130	0.120	8.605	0.640
132	1.132	0.122	8.608	0.646
133	1.134	0.123	8.626	0.650
134	1.135	0.124	8.650	0.652
135	1.143	0.127	8.660	0.738
136	1.147	0.130	8.767	0.754
137	1.156	0.134	9.029	0.780
138	1.163	0.139	9.238	0.795
139	1.816	0.146	9.389	0.804
140	1.253	0.149	9.493	0.810
141	1.262	0.151	9.583	0.815
142	1.271	0.153	9.626	0.818

143	1.277	0.155	9.669	0.821
144	1.283	0.157	9.716	0.825
145	1.291	0.162	9.763	0.840
146	1.294	0.164	9.809	0.847
147	1.296	0.166	9.852	0.855
148	1.298	0.168	9.885	0.865
149	1.303	0.169	9.932	0.874
150	1.316	0.170	9.986	0.891
151	1.330	0.171	10.039	0.914
152	1.342	0.172	10.072	0.929
153	1.348	0.173	10.090	0.937
154	1.353	0.175	10.105	0.942
155	1.362	0.178	10.146	0.949
156	1.365	0.180	10.245	1.375
157	1.366	0.189	10.397	1.576
158	1.373	0.198	10.923	1.943
159	1.397	0.203	11.970	2.820
160	1.422	0.207	13.421	3.281
161	1.440	0.214	15.289	3.482
162	1.452	0.221	15.912	3.620
163	1.465	0.229	16.530	4.168
164	1.509	0.247	17.622	4.338
165	1.533	0.274	18.366	4 .682
166	1.555	0.309	19.869	5.633
167	1.576	0.318	20.711	6.137
168	1.598	0.322	22.319	6.853
169	1.618	0.333	23.751	7.136
170	1.636	0.343	24.842	7.320
171	1.666	0.356	25.410	7.685
172	1.685	0.385	25.798	8.052
173	1.726	0.409	26.122	8.344
174	1.742	0.433	26.353	8.602
175	1.756	0.453	26.638	8.898
176	1.769	0.463	27.219	9.251
177	1.784	0.507	27.279	10.253
178	1.802	0.523	27.320	10.828
179	1.822	0.528	27.352	10.933
180	1.843	0.541	28.822	11.060
181	1.864	0.549	28.763	11.188
182	1.884	0.559	29.402	11.345
183	1.896	0.571	29.971	11.733
184	1.915	0.584	30.276	12.598
185	1.940	0.598	30.988	12.953

186	1.958	0.613	31.095	13.213
187	1.972	0.624	31.314	14.131
188	1.985	0.629	31.833	14.839
189	1.991	0.629	32.239	15.137
190	1.993	0.638	32.547	15.138
191	1.995	0.648	32.855	15.141
192	2.001	0.659	33.153	15.595
193	2.015	0.663	33.444	15.658
19 4	2.031	0.671	33.482	15.704
195	2.047	0.681	33.516	15.729
196	2.063	0.693	33.549	16.058
197	2.079	0.709	33.653	16.987
198	2.094	0.725	33.973	17.064
199	2.109	0.740	34.159	17.073
200	2.122	0.754	34.191	17.153
201	2.130	0.767	34.250	17.332
202	2.137	0.775	34.469	17.406
203	2.157	0.787	34.716	17.641
20 4	2.172	0.795	34.969	17.922
205	2.194	0.803	35.144	18.484
206	2.222	0.854	35.418	18.553
207	2.245	0.859	35.766	18.658
208	2.268	0.872	35.949	18.953
209	2.279	0.892	36.010	19.266
210	2.288	0.896	36.548	19.309
211	2.301	0.903	37.179	19.731
212	2.316	0.924	37.651	19.902
213	2.332	0.938	38.041	20.012
214	2.345	0.941	38.591	20.260
215	2.354	0.951	38.852	20.739
216	2.362	0.966	38.861	21.346
217	2.368	0.979	38.926	21.810
218	2.376	0.980	39.194	22.001
219	2.384	0.981	39.474	22.290
220	2.391	1.005	39.668	22.324
221	2.395	1.016	39.781	22.343
222	2.400	$\frac{1.022}{1.022}$	39.890	22.522
223	2.405	1.028	39.95 4	22.661
22 4	2.409	1.035	39.98 4	22.666
225	2.413	1.041	39.989	22.667
226	2.415	1.045	39.990	22.668
227	2.417	1.051	39.990	22.669
228	2.419	1.055	39.990	22.670

229	2.420	1.059	39.991	22.671
230	2.421	1.062	40.012	22.671
231	2.423	1.063	40.061	22.672
232	2.425	1.063	40.116	22.673
233	2.427	1.063	40.249	22.673
23 4	2.429	1.064	40.253	22.673
235	2.430	1.064	40.290	22.674
236	2.431	1.066	40.385	22.675
237	2.432	1.069	40.488	22.675
238	2.433	1.072	40.720	22.675
239	2.434	1.075	40.763	22.677

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e) Vehicles having composite hydrocarbon emission limitations of 2.00 grams per mile or greater, in Section 240. Table A or Section 240. Table B, shall use the hydrocarbon fast pass standards contained in this subsection. Vehicles having composite carbon monoxide emission limitations of 30.0 grams per mile or greater in Section 240. Table A or Section 240. Table B, shall use the carbon monoxide fast pass standards contained in this subsection:

	Hydroca	carbons Carbon Mor		onoxide
Second	Composite	Phase 2	Composite	Phase 2
30	0.407	N/A	3.804	N/A
31	0.415	N/A	3.985	N/A
32	0.423	N/A	4.215	N/A
33	0.436	N/A	4.440	N/A
34	0.451	N/A	4. 579	N/A
35	0.464	N/A	4.688	N/A
36	0.468	N/A	4.749	N/A
37	0.475	N/A	4.783	N/A
38	0.487	N/A	4.813	N/A
39	0.506	N/A	4 .876	N/A
40	0.530	N/A	5.104	N/A
41	0.549	N/A	5.217	N/A
42	0.569	N/A	5.383	N/A
43	0.588	N/A	5.571	N/A
44	0.609	N/A	5.888	N/A
45	0.621	N/A	6.199	N/A
46	0.636	N/A	6.245	N/A
47	0.649	N/A	6.318	N/A
48	0.666	N/A	6.418	N/A
49	0.679	N/A	6.540	N/A
50	0.696	N/A	6.690	N/A
51	0.712	N/A	6.875	N/A

52	0.727	N/A	7.029	N/A
53	0.745	N/A	7.129	N/A
54	0.760	N/A	7.359	N/A
55	0.776	N/A	7.722	N/A
56	0.797	N/A	8.017	N/A
57	0.814	N/A	8.249	N/A
58	0.826	N/A	8.425	N/A
59	0.837	N/A	8.563	N/A
60	0.849	N/A	8.686	N/A
61	0.862	N/A	8.804	N/A
62	0.872	N/A	8.916	N/A
63	0.887	N/A	9.025	N/A
64	0.895	N/A	9.138	N/A
65	0.903	N/A	9.250	N/A
66	0.925	N/A	9.354	N/A
67	0.933	N/A	9.457	N/A
68	0.945	N/A	9.575	N/A
69	0.959	N/A	9.728	N/A
70	0.970	N/A	9.938	N/A
71	0.980	N/A	10.140	N/A
72	0.988	N/A	10.222	N/A
73	0.997	N/A	10.261	N/A
74	1.022	N/A	10.278	N/A
75	1.037	N/A	10.290	N/A
76	1.051	N/A	10.715	N/A
77	1.064	N/A	10.790	N/A
78	1.075	N/A	10.844	N/A
79	1.087	N/A	10.921	N/A
80	$\frac{1.097}{1.097}$	N/A	11.010	N/A
81	1.105	N/A	11.090	N/A
82	1.114	N/A	11.136	N/A
83	1.136	N/A	11.136	N/A
84	1.160	N/A	11.165	N/A
85	1.182	N/A	11.191	N/A
86	1.201	N/A	11.205	N/A
87	1.217	N/A	11.211	N/A
88	1.233	N/A	11.211	N/A
89	1.248	N/A	11.211	N/A
90	1.262	N/A	11.211	N/A
91	1.271	N/A	11.220	N/A
92	1.279	N/A	11.294	N/A
93	1.287	N/A	11.332	N/A
94	1.295	N/A	11.355	N/A

95	1.302	N/A	11.383	N/A
96	1.309	N/A	11.410	N/A
97	1.316	N/A	11.433	N/A
98	1.325	N/A	11.516	N/A
99	1.339	N/A	11.820	N/A
100	1.356	N/A	12.104	N/A
101	1.365	N/A	12.344	N/A
102	1.378	N/A	12.781	N/A
103	1.397	N/A	13.472	N/A
10 4	1.420	N/A	14.405	N/A
105	1.445	N/A	14.808	N/A
106	1.470	N/A	14.965	N/A
107	1.491	N/A	15.121	N/A
108	1.506	N/A	15.372	N/A
109	1.517	0.151	15.530	1.113
110	1.528	0.159	15.687	1.213
111	1.542	0.172	16.018	1.344
112	1.559	0.186	16.527	1.399
113	1.578	0.199	16.810	1.520
114	1.594	0.207	16.961	1.640
115	1.605	0.216	17.120	1.684
116	1.615	0.229	17.135	1.693
117	1.625	0.235	17.249	1.786
18	1.642	0.240	17.451	2.007
119	1.670	0.245	17.509	2.084
120	1.694	0.261	17.605	2.179
121	1.705	0.267	17.734	2.644
122	1.717	0.277	18.049	2.328
123	1.732	0.287	18.447	2.375
124	1.747	0.298	18.592	2.437
125	1.763	0.308	18.657	2.543
126	1.779	0.316	18.796	2.593
127	1.795	0.322	18.952	2.641
128	1.810	0.329	19.137	2.663
129	1.823	0.338	19.329	2.672
130	1.835	0.346	19.519	2.676
131	1.845	0.354	19.707	2.683
132	1.854	0.356	19.882	2.817
133	1.862	0.357	19.905	2.992
134	1.870	0.359	20.049	3.111
135	1.883	0.362	20.460	3.234
136	1.888	0.364	20.746	3.304
137	1.896	0.368	21.310	3.310

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138	1.911	0.378	21.380	3.320
139	1.928	0.391	21.748	3.354
140	1.949	0.402	22.046	3.436
141	1.969	0.408	22.348	3.443
142	1.982	0.422	22.397	3.452
143	1.999	0.428	322.407	3.490
144	2.011	0.432	22.417	3.552
145	2.022	0.434	22.922	3.588
146	2.035	0.439	22.951	3.600
147	2.043	0.450	22.976	3.616
148	2.049	0.460	23.017	3.627
149	2.063	0.467	23.073	3.636
150	2.085	0.472	23.161	3.676
151	2.104	0.480	23.218	3.882
152	2.117	0.491	23.253	4.011
153	2.127	0.503	23.337	4.047
15 4	2.138	0.505	23.425	4.067
155	2.152	0.515	23.534	4.081
156	2.168	0.522	23.652	4.116
157	2.186	0.527	23.739	4.251
158	2.205	0.537	24.606	5.099
159	2.224	0.549	25.615	5.383
160	2.242	0.568	26.073	6.362
161	2.268	0.586	28.496	7.926
162	2.308	0.610	29.772	8.429
163	2.352	0.648	31.056	9.201
164	2.406	0.677	33.351	10.825
165	2.421	0.699	34.980	12.291
166	2.435	0.720	35.937	13.366
167	2.470	0.738	37.012	14,428
168	2.501	0.767	37.892	15.318
169	2.537	0.828	39.028	15.699
170	2.571	0.855	40.406	16.073
171	2.625	0.869	41.379	16.475
172	2.657	0.885	42.033	17.158
173	2.683	0.900	42,432	17.532
174	2.701	0.941	42.742	17.965
175	2.717	0.979	43.399	18.242
176	2.732	1.002	43.895	18.283
177	2.756	1.025	44.227	18.480
178	2.781	1.047	44.926	19.576
179	2.811	1.065	45.256	20.015
180	2.853	1.089	45.553	20.203
		= = =		

181	2.898	1.109	45.753	20.433
182	2.946	1.133	46.210	21.025
183	2.988	1.158	47.017	21.882
184	3.023	1.184	48.185	22.204
185	3.057	1.209	48.741	22.859
186	3.076	1.222	49.462	23.533
187	3.101	1.231	50.313	24.281
188	3.120	1.239	51.285	25.078
189	3.136	1.254	52.076	25.276
190	3.151	1.278	52.857	25.578
191	3.163	1.300	52.876	25.859
192	3.209	1.313	53.067	25.985
193	3.223	1.324	53.777	26.153
194	3.237	1.340	54.242	26.582
195	3.263	1.367	54.489	27.067
196	3.302	1.387	54.601	27.456
197	3.338	1.402	54.912	27.805
198	3.372	1.417	55.588	28.070
199	3.390	1.432	56.266	28.590
200	3.428	1.446	56.617	28.914
201	3.470	1.460	56.863	29.063
202	3.493	1.477	57.204	29.502
203	3.509	1.492	57.371	29.697
20 4	3.522	1.501	57.487	29.713
205	3.533	1.510	57.728	29.783
206	3.550	1.522	58.097	29.942
207	3.578	1.561	58.572	30.284
208	3.607	1.585	59.024	30.755
209	3.630	1.597	59.321	31.287
210	3.658	1.607	59.715	31.549
211	3.701	1.627	60.045	31.820
212	3.745	1.645	60.453	32.250
213	3.778	1.656	60.935	32.546
214	3.814	1.663	61.307	32.808
215	3.825	1.669	61.666	33.060
216	3.835	1.674	62.148	33.204
217	3.844	1.685	62.532	33.341
218	3.853	1.700	62.546	33.414
219	3.864	1.704	62.559	33.514
220	3.874	1.706	62.570	33.640
221	3.891	1.709	62.846	33.692
222	3.928	1.711	63.097	33.711
223	3.966	1.714	63.150	33.733

224	4.008	1.718	63.150	33.770
225	5.010	1.721	63.150	33.796
226	4.012	1.723	63.150	33.810
227	4.016	1.726	63.150	33.821
228	4.019	1.729	63.150	33.839
229	4 .057	1.731	63.150	33.865
230	4.065	1.733	63.150	33.89 4
231	4.071	1.735	63.150	33.918
232	4.073	1.743	63.150	33.944
233	4 .075	1.749	63.150	33.985
234	4.077	1.753	63.153	34.01 4
235	4 .079	1.757	63.159	34.032
236	4.081	1.762	63.173	34.051
237	4.083	1.767	63.193	34.067
238	4.084	1.772	63.214	34.079
239	4.085	1.776	63.233	34.085

521 522 (Source: Repealed at

(Source: Repealed at 35 Ill. Reg. _____, effective _____)