

Sec. 22a-174-22e. Control of nitrogen oxides emissions from fuel-burning equipment at major stationary sources of nitrogen oxides.

(a) **Definitions.** For the purposes of this section, the following definitions apply. Any term not defined shall be as defined in section 22a-174-1 of the Regulations of Connecticut State Agencies:

(1) “Affected unit” means a fossil-fuel fired: (A) Stationary source that serves a generator with a nameplate capacity of 15 MW or more; or (B) Boiler or indirect heat exchanger with a maximum heat input capacity of 250 MMBtu/hr or more.

(2) “Boiler serving an electric generating unit” or “boiler serving an EGU” means a steam generating unit used for generating electricity.

(3) “Bumped-up RACT unit” means an emission unit located at a facility with a potential to emit NO_x of not less than twenty-five (25) tons per year whereby such facility becomes a major stationary source of NO_x on or after November 7, 2022 solely as a result of the amendment of the definition of “severe non-attainment area for ozone” in RCSA section 22a-174-1 effective on November 13, 2023.

(4) “Combined cycle combustion turbine” means an internal combustion engine fueled by liquid or gaseous fuel, in which blades are driven by combustion gases to generate mechanical energy in the form of a rotating shaft that drives an electric generator which recovers heat from the turbine exhaust gases to generate steam that drives a steam turbine which drives an additional electric generator.

(5) “Combined heat and power system” means a steam-generating unit that simultaneously produces both electric power and useful thermal energy from the same primary energy source.

(6) “Combustion turbine” means an internal combustion engine fueled by liquid or gaseous fuel, in which blades are driven by combustion gases to generate mechanical energy in the form of a rotating shaft that drives an electric generator or other industrial equipment.

(7) “Cyclone boiler” means a boiler that combusts fuel in a horizontal water-cooled cylinder before releasing the combustion gases into the boiler.

(8) “Daily block average” means the arithmetic mean of all hourly emission concentrations or rates recorded when an emission unit is operating measured over the 24-hour period from 12 a.m. (midnight) to 12 a.m. (midnight).

(9) “Digester gas” means a mixture of primarily methane and carbon dioxide produced by a bacterial degradation of organic matter under anaerobic conditions and used as a fuel.

(10) “Duct burner” means a device that combusts fuel and that is placed in the exhaust duct from another source, such as a combined cycle combustion turbine, to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a heat recovery steam generating unit.

(11) “Electric generating unit” or “EGU” means a combustion or steam generating source used for generating electricity that delivers all or part of its power to the electric power distribution grid for commercial sale.

(12) “Electricity supplier” means “electric supplier” as defined in section 16-1(a)(24) of the Connecticut General Statutes, and “municipal electric utility” as defined in section 7-233b(8) of the Connecticut General Statutes.

(13) “Emergency” means an unforeseeable condition that is beyond the control of the

owner or operator of an emergency engine that:

(A) Results in an interruption of electrical power from the electricity supplier to the premises;

(B) Results in a deviation of voltage from the electricity supplier to the premises of three percent (3%) above or five percent (5%) below standard voltage in accordance with section 16-11-115 of the RCSA;

(C) Requires an interruption of electrical power from the electricity supplier to the premises enabling the owner or operator to perform emergency repairs; or

(D) Requires operation of the emergency engine to minimize damage from fire, flood, or any other catastrophic event, natural or man-made.

(14) “Emergency engine” means a stationary reciprocating engine or a combustion turbine that is used as a means of providing mechanical or electrical power only during the following periods:

(A) Emergencies;

(B) Testing;

(C) Scheduled maintenance;

(D) When the facility owner or operator interrupts power to the facility to perform construction, maintenance or repair of the power distribution system for the facility or portion of the facility; or

(E) When the electricity supplier makes a scheduled interruption of power to the facility so that the electricity supplier may perform construction, maintenance or repair of the primary power distribution system for the facility. “Emergency engine” does not include a reciprocating engine or combustion turbine for which the owner or operator is a party to any other agreement to sell electrical power from such reciprocating engine or combustion turbine to an electricity supplier, or otherwise receives any reduction in the cost of electrical power for agreeing to produce power during periods of reduced voltage or reduced power availability.

(15) “Existing emission unit” means a source for which construction commenced prior to December 22, 2016.

(16) “Force majeure” means an event caused by circumstances beyond the control of the owner or operator of the emission unit subject to the event, its contractors, or any entity controlled by the emission unit subject to the event that prevents the owner or operator from complying with the regulatory requirement to conduct performance tests within the specified timeframe despite best efforts to fulfill the obligation. Examples of such events are acts of nature, acts of war or terrorism, or equipment failure or safety hazard beyond the control of the owner or operator of the emission unit subject to the event.

(17) “Gas” or “gaseous fuel” means natural gas, propane, or any other fuel that is in the gaseous state under standard conditions, except for landfill gas or digester gas.

(18) “Industrial/commercial/institutional boiler” or “ICI boiler” means an indirect heat exchanger that heats water to supply heat to an industrial, commercial, or institutional operation.

(19) “Landfill gas” means a mixture of primarily methane and carbon dioxide produced by bacterial degradation of organic matter in a landfill and used as a fuel.

(20) “Non-ozone season” means the period beginning October 1 of a calendar year and

ending on April 30 of the following calendar year, inclusive.

(21) “Other oil” means a fuel that is liquid at standard conditions and is not residual oil.

(22) “Ozone forecast” means the eight-hour ozone forecast issued as an air quality index one or more days in advance by the commissioner and posted on the Department’s website or otherwise provided by the Department for the regulated community.

(23) “Ozone season” means the period beginning May 1 of a calendar year and ending on September 30 of the same year, inclusive.

(24) “Phase 1” means the first implementation phase of this section, beginning June 1, 2018 and ending May 31, 2023.

(25) “Phase 2” means the second implementation phase of this section, beginning June 1, 2023 and continuing thereafter.

(26) “Reciprocating engine” means an internal combustion engine in which a rotating crankshaft is driven by reciprocating motion of piston or pistons.

(27) “Relative accuracy test audit” or “RATA” means the CEMS performance test procedure conducted pursuant to 40 CFR 60 or 40 CFR 75.

(28) “RCSA” means Regulations of Connecticut State Agencies.

(29) “Simple cycle combustion turbine” means a combustion turbine that does not recover heat from its exhaust gases.

(30) “Temporary unit” means any gaseous or liquid fuel fired unit that is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers or platforms. A unit is not a “temporary unit” if any one of the following conditions exists:

(A) The unit is attached to a foundation;

(B) The unit or a replacement remains at the location within the facility and performs the same or similar function for more than 12 consecutive months, provided a temporary unit that replaces a temporary unit at a location and performs the same or similar function will be included in calculating such consecutive time period;

(C) The unit is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least two years and operates at that facility for at least three months of the year; or

(D) The unit is moved from one location to another within the facility, but continues to perform the same or similar function and serve the same electricity, steam or hot water system in an attempt to circumvent the residence time specification of this definition.

(31) “Test stand” or “test cell” means the collection of all equipment and activities associated with the apparatus used for testing uninstalled engines.

(32) “Tune-up” means adjustments made to an emission unit to improve efficiency with respect to combustion operations.

(b) Applicability.

(1) This section applies to the owner or operator of the following listed emission units, including temporary units, located at a major stationary source for NOx:

(A) A boiler serving an electric generating unit;

(B) A simple cycle combustion turbine with a maximum rated capacity of five MMBtu/hr or more;

(C) A combined cycle combustion turbine with a maximum rated capacity of five

MMBtu/hr or more;

- (D) An ICI boiler with a maximum rated capacity of five MMBtu/hr or more;
- (E) A reciprocating engine with a maximum rated capacity of three MMBtu/hr or more;
- (F) Equipment that combusts fuel for heating materials, including air, and that has a maximum rated capacity of five MMBtu/hr or more; or
- (G) Any other stationary fuel-burning equipment with a maximum rated capacity of five MMBtu/hr or more.

(2) This section applies to the owner or operator of an emission unit that is subject to RCSA section 22a-174-22f and that meets one of the following criteria:

(A) Except for a “reclassified unit”, described in subparagraph (C) of this subdivision, on any day on and after May 1, 2018, exceeds the applicable daily emission threshold of subsection (e)(2) of RCSA section 22a-174-22f;

(B) Is an affected unit; or

(C) Is a reclassified unit, as defined in RCSA 22a-174-22f(e)(5), and exceeds the applicable daily emission threshold of RCSA 22a-174-22f(e)(2) on or after May 1, 2026.

(c) Exemptions and exceptions.

(1) The requirements of this section shall not apply to a mobile source.

(2) The requirements of this section shall not apply to an emissions unit that is a type of incinerator for which an emissions guideline has been issued under Section 129 of the Act;

(3) The requirements of subsections (d)(6), (d)(14), (i), (l), (m) and (n) of this section shall not apply to any reciprocating engine that is:

(A) Used to test or provide emergency power or alternative power for safety-related structures, systems and components or other Nuclear Regulatory Commission-mandated systems at an electric generating facility licensed under 10 CFR 50; or

(B) Located at a hospital or other health care facility and used to meet standards of The Joint Commission or the National Fire Protection Association for emergency electrical power systems.

(4) The requirements of this section shall not apply to a reciprocating engine operated by an EAS Participant, as defined in 47 CFR 11.2, to meet the equipment operational readiness requirements of 47 CFR 11.35.

(5) Emergency engines are exempt from the following requirements of this section:

(A) The emissions limitations of subsection (d)(6);

(B) The tune-up requirements of subsection (i);

(C) The testing requirements of subsection (l);

(D) The monitoring requirements of subsection (m);

(E) The bumped-up RACT unit requirements of subsection (n); and

(F) If an owner or operator operates a model year 2013 or later emergency engine in compliance with the NO_x emissions standards of 40 CFR 1039, Subpart B, such engine is exempt from the restriction of subsection (d)(14) of this section.

(6) The requirements of subsections (d), (i), (l), (m) and (n) of this section shall not apply to the owner or operator of a test stand or test cell, for emissions from the use of such test stand or test cell.

(7) The requirements of subsections (d)(3), (d)(4), (d)(6), (i), (l), (m) and (n) of this section shall not apply to the emission units listed in subparagraphs (A) and (B) of this

subdivision. The owner or operator of an emission unit operating pursuant to this subdivision shall not operate such emission unit on any day for which the commissioner has forecast that ozone levels will be “moderate to unhealthy for sensitive groups,” “unhealthy for sensitive groups,” “unhealthy” or “very unhealthy.” If subsequent to the initial forecast of “moderate to unhealthy for sensitive groups” or greater, the forecast is revised to “moderate” or lower, the owner or operator is no longer prohibited from operating the emission unit for the remainder of that day. An owner or operator of an emission unit may rely on an ozone forecast of “moderate” or lower obtained after 3 p.m. on the preceding day. Subsequent changes to the ozone forecast after 3 p.m. that forecast ozone levels of “moderate to unhealthy for sensitive groups” or greater shall not obligate the owner or operator to refrain from operation of the emission unit at the facility on the following day. Emission units that may operate pursuant to this exemption include the following:

(A) Fuel-burning equipment that is the subject of or used for research and development; or

(B) Compression-ignition reciprocating engines used exclusively for training personnel in the operation and maintenance of such engines aboard submarines.

(8) The requirements of subsections (d)(3), (i), (l), and (m) of this section shall not apply to a boiler that operates to supply steam used for the startup of a nuclear reactor or to supply hot water, heat or steam for the protection of facility systems when reactor-heated steam is not available at an electric generating facility licensed under 10 CFR 50.

(9) The requirements of this section shall not apply to non-road engines, as defined in 40 CFR 1068.30 or 40 CFR 89.2.

(10) The exemptions provided in subdivision (3) or (4) of this subsection are not available for a reciprocating engine or combustion turbine for which the owner or operator is party to an agreement to sell electrical power from such reciprocating engine or combustion turbine to an electricity supplier or an owner or operator who otherwise receives any reduction in the cost of electrical power for agreeing to produce power during periods of reduced voltage or reduced power availability.

(11) For an emission unit subject to this section pursuant to subsection (b)(2)(A) of this section, if the owner or operator requests from the commissioner and is granted an enforceable limitation on daily NO_x emissions to a level below the applicable daily NO_x threshold in RCSA section 22a-174-22f(e)(2), the emission unit is no longer subject to this section. Such an enforceable limitation shall be issued in an order or a modification to an existing permit.

(d) Emissions limitations.

(1) With the exception of the owner or operator of a bumped-up RACT unit, the owner or operator of an emission unit shall not cause or allow an emission unit to exceed the applicable emissions limitations specified in this subsection unless such owner or operator undertakes one of the following actions:

(A) Implements an alternative compliance mechanism as provided in subsection (g) of this section;

(B) Operates under a case-by-case RACT determination as provided in subsection (h) of this section; or

(C) Ceases operation as provided in subsection (f) of this section.

The owner or operator of a bumped-up RACT unit shall comply with the applicable Phase 2 emission limitations of this subsection in accordance with the applicable timing set forth in subsection (n) of this section.

(2) Boilers serving EGUs.

(A) For Phase 1, the following emissions limitations, based on a daily block average for an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (l) of this section for an emission unit without a NO_x CEM system, apply to the owner or operator of a boiler serving an EGU:

	Gas-fired (lb/MMBtu)	Residual oil-fired (lb/MMBtu)	Other oil-fired (lb/MMBtu)	Coal-fired (lb/MMBtu)
Cyclone boiler	0.30	0.43	0.43	***
Other boiler	0.20	0.25	0.20	0.28

(B) For Phase 1, the following ozone season and non-ozone season emissions limitations apply to the owner or operator of a boiler serving an EGU that is also an affected unit. The averaging period for the ozone season limit is May 1 through September 30, and the averaging period for the non-ozone season limit is October 1 through April 30:

	Gas-fired (lb/MMBtu)	Residual oil-fired (lb/MMBtu)	Other oil-fired (lb/MMBtu)	Coal-fired (lb/MMBtu)
Ozone season limit (5 month average)	0.10	0.20	0.10	0.15
Non-ozone season limit (7 month average)	0.15	0.15	0.15	0.15

(C) For Phase 2, the following emissions limitations, based on a daily block average for an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (l) of this section for an emission unit without a NO_x CEM system, apply to the owner or operator of a boiler serving an EGU:

	Gas-fired (lb/MMBtu)	Residual oil-fired (lb/MMBtu)	Other oil-fired (lb/MMBtu)	Coal-fired (lb/MMBtu)
Boiler serving an EGU	0.10	0.20	0.10	0.12

(D) For Phase 2, the following non-ozone season emissions limitation applies to the owner or operator of a boiler serving an EGU that is also an affected unit. The averaging period for the non-ozone season limit is October 1 through April 30:

Regulations of Connecticut State Agencies

	Gas-fired (lb/MMBtu)	Residual oil-fired (lb/MMBtu)	Other oil-fired (lb/MMBtu)	Coal-fired (lb/MMBtu)
Non-ozone season limit (7 month average)	0.15	0.15	0.15	0.15

(3) ICI Boilers.

(A) For Phase 1, the following emissions limitations, based on a daily block average for an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (I) of this section for an emission unit without a NO_x CEM system, apply to the owner or operator of an ICI boiler:

	Gas-fired (lb/MMBtu)	Residual oil-fired (lb/MMBtu)	Other oil-fired (lb/MMBtu)
Boilers with a maximum rated capacity greater than or equal to 5 MMBtu/hr	0.20	0.25	0.20

(B) For Phase 1, the following ozone season and non-ozone season emissions limitations apply to the owner or operator of an ICI boiler that is also an affected unit. The averaging period for the ozone season limit is May 1 through September 30, and the averaging period for the non-ozone season limit is October 1 through April 30:

	Gas-fired (lb/MMBtu)	Residual oil-fired (lb/MMBtu)	Other oil-fired (lb/MMBtu)
Ozone season limit (5 month average)	0.10	0.20	0.15
Non-ozone season limit (7 month average)	0.15	0.15	0.15

(C) For Phase 2, the following emissions limitations, based on a daily block average for an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (I) of this section for an emission unit without a NO_x CEM system, apply to the owner or operator of an ICI boiler:

	Gas-fired (lb/MMBtu)	Residual oil-fired (lb/MMBtu)	Other oil-fired (lb/MMBtu)
Boilers with a maximum rated capacity greater than or equal to 5 and less than 25 MMBtu/hr	0.20	0.25	0.20

Regulations of Connecticut State Agencies

	Gas-fired (lb/MMBtu)	Residual oil-fired (lb/MMBtu)	Other oil-fired (lb/MMBtu)
Boilers with a maximum rated capacity greater than or equal to 25 MMBtu/hr and less than 100 MMBtu/hr	0.05	0.20	0.10
Boilers with a maximum rated capacity of greater than or equal to 100 MMBtu/hr	0.10	0.20	0.15

(D) For Phase 2, the following non-ozone season emissions limitation applies to the owner or operator of an ICI boiler that is also an affected unit. The averaging period for the non-ozone season limit is October 1 through April 30:

	Gas-fired (lb/MMBtu)	Residual oil-fired (lb/MMBtu)	Other oil-fired (lb/MMBtu)
Non-ozone season limit (7 month average)	0.15	0.15	0.15

(4) Simple cycle combustion turbines.

(A) For Phase 1, the following emissions limitations, based on a daily block average for an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (l) of this section for an emission unit without a NO_x CEM system, apply to the owner or operator of a simple cycle combustion turbine:

	Gas-fired	Other oil-fired
Simple cycle combustion turbine	55 ppmvd	75 ppmvd

(B) For Phase 1, the following ozone season and non-ozone season emissions limitations apply to the owner or operator of a simple cycle combustion turbine that is also an affected unit. The averaging period for the ozone season limit is May 1 through September 30, and the averaging period for the non-ozone season limit is October 1 through April 30:

	Gas-fired	Other oil-fired
Ozone season limit (5 month average)	50 ppmvd or 0.18 lb/MMBtu	50 ppmvd or 0.19 lb/MMBtu
Non-ozone season limit (7 month average)	0.15 lb/MMBtu	0.15 lb/MMBtu

(C) For Phase 2, the following emissions limitations, based on a daily block average for

an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (I) of this section for an emission unit without a NO_x CEM system, apply to the owner or operator of a simple cycle combustion turbine:

	Gas-fired	Other oil-fired
Simple cycle combustion turbine	40 ppmvd	50 ppmvd

(D) For Phase 2, the following non-ozone season emissions limitation applies to the owner or operator of a simple cycle combustion turbine that is also an affected unit. The averaging period for the non-ozone season limit is October 1 through April 30:

	Other oil-fired
Non-ozone season limit (7 month average)	0.15 lb/MMBtu

(5) Combined cycle combustion turbines.

(A) For Phase 1, the following emissions limitations, based on a daily block average for an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (I) of this section for an emission unit without a NO_x CEM system, apply to the owner or operator of a combined cycle combustion turbine:

	Gas-fired	Other oil-fired
Combined cycle combustion turbine	42 ppmvd	65 ppmvd

(B) For Phase 1, the following non-ozone season emissions limitations apply to the owner or operator of a combined cycle combustion turbine that is also an affected unit. The averaging period for the non-ozone season limit is October 1 through April 30:

	Gas-fired	Other oil-fired
Non-ozone season limit (7 month average)	0.15 lb/MMBtu	0.15 lb/MMBtu

(C) For Phase 2, the following emissions limitations, based on a daily block average for an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (I) of this section for an emission unit without a NO_x CEM system, apply to the owner or operator of a combined cycle combustion turbine:

	Gas-fired	Other oil-fired
Combined cycle combustion turbine	25 ppmvd	42 ppmvd

(D) For Phase 2, the following non-ozone season emissions limitation applies to the owner or operator of a combined cycle combustion turbine that is also an affected unit. The averaging period for the non-ozone season limit is October 1 through April 30:

Regulations of Connecticut State Agencies

	Gas-fired	Other oil-fired
Non-ozone season limit (7 month average)	0.15 lb/MMBtu	0.15 lb/MMBtu

(6) Reciprocating engines.

(A) For Phase 1, the following emissions limitations, based on a daily block average for an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (I) of this section for an emission unit without a NO_x CEM system, apply to the owner or operator of a reciprocating engine:

	Gas-fired (g/bk hp-hr)	Other oil-fired (g/bk hp-hr)	Landfill gas or digester gas, alone or fired with gas (g/bk hp-hr)
Reciprocating engine	2.5	8.0	2.5

(B) For Phase 2, the following emissions limitations, based on a daily block average for an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (I) of this section for an emission unit without a NO_x CEM system, apply to the owner or operator of a reciprocating engine:

	Gas-fired (g/bk hp-hr)	Other oil-fired (g/bk hp-hr)	Landfill gas or digester gas, alone or fired with gas (g/bk hp-hr)
Rich burn reciprocating engine	1.5	1.5	2.0
Lean burn reciprocating engine	1.5	2.3	2.0

(7) For an emission unit subject to this section pursuant to subsection (b)(2) of this section, the owner or operator shall comply with the emissions limitations identified in subdivisions (2) to (6), inclusive, of this subsection, as appropriate to the type of emission unit.

(8) For an emission unit of a unit type that is not identified in subdivisions (2) to (6), inclusive, or subdivision (9) of this subsection, which unit combusts fuel for heating materials including air, NO_x emissions shall not exceed 180 ppmvd, corrected to 12% carbon dioxide, based on a daily block average for an emission unit with a NO_x CEM system, or as determined by NO_x emission testing pursuant to subsection (I) of this section for an emission unit without a NO_x CEM system.

(9) For a fuel-burning emission unit of a type listed in subparagraphs (A) to (E), inclusive, of this subdivision that is fired by a fuel other than a fuel identified with an emissions limitation in subdivisions (2) to (6), inclusive, of this subsection, NO_x emissions shall not exceed 0.3 lb/MMBtu for Phase 1 and 0.1 lb/MMBtu for Phase 2, based on a daily

block average for an emission unit with a NOx CEM system, or as determined by NOx emission testing pursuant to subsection (l) of this section for an emission unit without a NOx CEM system:

- (A) A boiler serving an EGU;
- (B) A simple cycle combustion turbine;
- (C) A combined cycle combustion turbine;
- (D) An ICI boiler; or
- (E) A reciprocating engine.

(10) The owner or operator of an emission unit that is capable of firing two or more fuels for which a standard is designated in this subsection shall not cause or allow emissions of NOx from such emission unit in excess of the following:

(A) For fuel-burning equipment that simultaneously fires two or more fuels, an emissions limitation calculated by:

(i) Multiplying the heat input of each fuel combusted by the emissions limitation in this subsection for the particular emission unit and fuel used,

(ii) Summing those products, and

(iii) Dividing the sum by the total heat input; or

(B) For fuel-burning equipment that is capable of interchangeably firing two or more fuels, the emissions limitation in this subsection for the particular equipment and fuel used.

(11) The following averaging times for emissions limitations shall be applicable to the owner or operator of an emission unit that has or is required to have a CEM system for NOx:

(A) For a non-ozone season emissions limitation, the period from October 1 to April 30, inclusive, including all periods of operation, except as provided in subsection (m)(3) of this section;

(B) For an ozone season emissions limitation, the period from May 1 to September 30, inclusive, including all periods of operation, except as provided in subsection (m)(3) of this section;

(C) For any other emissions limitation, a daily block average, including all periods of operation, except as provided in subsection (m)(3) of this section;

(12) An owner or operator of an emission unit that does not monitor NOx emissions using a CEM system shall determine compliance with the emissions limitations of this subsection by performing NOx emission testing as required by subsection (l) of this section.

(13) The owner or operator of an emission unit for which construction commences on or after December 22, 2016 shall achieve compliance with the applicable Phase 2 emissions limitations of this section upon the date of initial operation.

(14) The owner or operator of an emergency engine shall not operate the emergency engine for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be “moderate to unhealthy for sensitive groups” or greater. If, subsequent to the initial forecast of “moderate to unhealthy for sensitive groups” or greater, the forecast is revised to “moderate” or lower, the owner or operator is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. An owner or operator of an emergency engine may rely on an ozone forecast of “moderate” or lower obtained after 3 p.m. on the preceding day. Subsequent

changes to the ozone forecast after 3 p.m. that forecast ozone levels of “moderate to unhealthy for sensitive groups” or greater shall not obligate the owner or operator to refrain from operation of the emergency engine at the facility on the following day. The commissioner may exempt, by permit or order, the owner or operator of an emergency engine from this subdivision if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location.

(15) For a combined cycle combustion turbine associated with a duct burner, the emissions from the turbine and duct burner system in the aggregate, or either the turbine or duct burner if the turbine or duct burner operates alone, shall at all times be less than the applicable emissions limitations in subsection (d)(5) of this section.

(16) Emissions limitations in subsections (d)(4) and (d)(5) of this section quantified in units of ppmvd shall be corrected to fifteen percent (15%) oxygen.

(17) If an emission unit may be subject to an emissions limitation for more than one type of emission unit, the emission unit is subject to the more stringent emissions limitation.

(18) If the electricity generating unit in a combined heat and power system is a reciprocating engine, the emissions limitations in subsection (d)(6) of this section apply and if the electricity generating unit in a combined heat and power system is a combustion turbine, the emissions limitations in subsection (d)(5) of this section apply.

(19) An owner or operator shall calculate an emission unit’s non-ozone season emission rate as the sum of the emission unit’s NO_x emissions during the period from October 1 through April 30, inclusive, divided by the sum of the emission unit’s heat input during the period from October 1 through April 30, inclusive.

(20) An owner or operator shall calculate an emission unit’s ozone season emission rate as the sum of the emission unit’s NO_x emissions while firing the applicable fuel during the period from May 1 through September 30, inclusive, divided by the sum of the emission unit’s heat input while firing the applicable fuel during the period from May 1 through September 30, inclusive.

(e) “Emergency” and “emergency engine”.

On and after December 22, 2016, an individual permit or order issued to the owner or operator of an emission unit subject to this section that uses any of the following terms shall be read as follows:

(1) For “emergency” or “emergency engine” as defined in former RCSA section 22a-174-22, the owner or operator shall substitute “emergency” or “emergency engine” as defined in subsection (a) of this section;

(2) If the phrase “emergency engine as defined in RCSA section 22a-174-22” is used, the owner or operator shall substitute “emergency engine as defined in RCSA section 22a-174-22e(a);” and

(3) If the definition of “emergency engine” or “emergency” as defined in RCSA section 22a-174-22 is referenced, the owner or operator shall substitute the language of the applicable term as defined in subsection (a) of this section.

(f) Permanent cessation of operation.

(1) Except as provided in subdivision (2) of this subsection or subsection (n) of this section, the owner or operator of an existing emission unit subject to this section who is unable to comply with an emissions limitation of subsection (d) of this section at the

beginning of the Phase 1 or the Phase 2 period and who has not submitted a plan pursuant to subsection (g) or a demonstration pursuant to subsection (h) of this section shall cease operation as of the first day of the Phase 1 or Phase 2 period, as applicable. The owner or operator of the emission unit shall also perform one of the following actions:

(A) If the emission unit is operating pursuant to a permit or registration, submit a request to the commissioner to revoke such permit or registration. Such a request shall be submitted no later than the first day of the Phase 1 or Phase 2 period, as applicable; or

(B) If the emission unit is not operating pursuant to a permit or registration, render the unit physically inoperable no later than the first day of the Phase 1 or Phase 2 period, as applicable, and submit a statement to the commissioner signed by a responsible official and certified in accordance with RCSA section 22a-174-2a stating that the emission unit has been rendered physically inoperable. Such a statement shall be submitted no later than the first day of the Phase 1 or Phase 2 period, as applicable.

(2) An owner or operator may enter into a legally enforceable cease operation agreement with the commissioner that includes a date no later than May 31, 2019 for a Phase 1 emissions limitation on which operation shall cease.

(g) Compliance options.

(1) Except as provided in subsection (n) of this section, the owner or operator of an existing emission unit subject to this section who is unable to operate the emission unit in accordance with an applicable emissions limitation of subsection (d) of this section and for which the owner or operator does not intend to submit a demonstration pursuant to subsection (h) of this section or cease operation as provided in subsection (f) of this section shall submit a plan to the commissioner to operate such emission unit in accordance with a compliance option identified in this subsection. Such a plan shall be submitted to the commissioner no later than September 1, 2017, for a Phase 1 emissions limitation, or September 1, 2021, for a Phase 2 emissions limitation. A compliance option provided in this subsection shall be established by the commissioner through the issuance of an order or permit modification to the owner or operator of such emission unit or units.

(2) The owner or operator of a boiler serving an EGU may operate the boiler serving the EGU in compliance with one of the options listed in this subdivision in lieu of complying with the applicable emissions limitations of subsection (d) of this section. The options are available as an alternative to any Phase 1 or Phase 2 emissions limitation set out in subsection (d) of this section, unless otherwise specified. The actions specified in a compliance plan for a Phase 1 emissions limitation shall be implemented no later than June 1, 2018 or, for a Phase 2 emissions limitation, no later than June 1, 2023, unless otherwise specified in this subdivision:

(A) For a Phase 1 emissions limitation, reduce the lb/MMBtu average emission rate from the subject emission unit by at least 40% from a 2014 baseline average emission rate, as determined by a CEM system in accordance with former section 22a-174-22 of the RCSA and excluding periods of startup, shutdown or malfunction, or if the subject emission unit does not have a CEM system, by the most recent emission test performed pursuant to former section 22a-174-22 of the RCSA. An owner or operator may request an alternative baseline year if the emissions in the alternative year are more representative of typical unit operations;

(B) For a Phase 2 emissions limitation, reduce the lb/MMBtu average emission rate from the subject emission unit by at least 40% from a 2019 baseline emission rate, as determined by a CEM system in accordance with subsection (m) of this section, or, if the subject emission unit does not have a CEM system, by the most recent emission test performed either pursuant to subsection (l) of this section or former section 22a-174-22 of the RCSA. An owner or operator may request an alternative baseline year if the emissions in the alternative year are more representative of typical unit operations;

(C) For a Phase 1 emissions limitation, use existing, banked, NOx DERCs to comply with the applicable emissions limitations of subsection (d) of this section in accordance with an order or permit modification issued by the commissioner;

(D) For the Phase 1 emissions limitations in subparagraphs (A) and (B) of subsection (d)(2) of this section, accept an enforceable cap on mass emissions or hours of operation. The enforceable cap shall achieve the lower of a 40% reduction in subject emission unit 2014 allowable emissions or the average of the actual emissions for the two non-overlapping consecutive 12-month periods between January 1, 2014 and March 1, 2017 with the highest actual emissions, determined as follows:

(i) Measured by a CEM system in accordance with former section 22a-174-22 of the RCSA, or,

(ii) If the subject emission unit does not have a CEM system, calculated from the most recent emissions test performed pursuant to former section 22a-174-22 of the RCSA;

(E) For the Phase 2 emissions limitations in subparagraphs (C) and (D) of subsection (d)(2) of this section, accept an enforceable cap on mass emissions or hours of operation. The enforceable cap shall achieve the lower of a 40% reduction in subject emission unit 2019 allowable emissions or the actual emissions over the consecutive 12-month period between June 1, 2018 and March 1, 2020 with the highest actual emissions, determined as follows:

(i) Measured by a CEM system in accordance with subsection (m) of this section, or,

(ii) If the subject emission unit does not have a CEM system, calculated from the most recent emissions test performed pursuant to former section 22a-174-22 of the RCSA or subsection (l) of this section, whichever applies;

(F) For a Phase 1 emissions limitation, commit to combust only gas if a permit or registration for the boiler serving an EGU allows the boiler to combust either gas or residual oil or other oil. This option is only available if operation on gas results in quantifiable annual NOx emissions equal to or less than the NOx emissions expected if the boiler serving an EGU operated in compliance with the applicable emissions limitations of subsection (d) of this section by combusting residual oil or other oil and gas. This compliance option shall be implemented no later than September 1, 2018. An owner or operator operating under this option may enter into an interruptible supply agreement with the gas supplier. If the supply of gas is curtailed in accordance with such agreement, the owner or operator may operate the emission unit on an alternative fuel for the period of the curtailment if the emission unit is operated to minimize emissions for such alternative fuel type; or

(G) Commit to retire another unit or units located at the same facility as the boiler serving an EGU. The unit or units to be retired shall cease operations no earlier than May 3, 2016 and no later than June 1, 2018 for a Phase 1 emissions limitation or no earlier than May 3,

2016 and no later than June 1, 2023 for a Phase 2 emissions limitation. This option shall result in a reduction in maximum allowable mass emissions equal to or greater than the NOx emissions reduction that would be achieved if:

(i) For a Phase 1 emissions limitation, the boiler serving an EGU and the retired unit or units complied with the applicable Phase 1 emissions limitations of subsection (d) of this section during the consecutive 12-month period between January 1, 2014 and March 1, 2017 with the highest aggregate actual emissions for the boiler serving an EGU and the unit or units to be retired, or,

(ii) For a Phase 2 emissions limitation, the boiler serving an EGU and the retired unit or units complied with the applicable Phase 2 emissions limitations in subsection (d) of this section during the consecutive 12-month period between June 1, 2018 and March 1, 2020 with the highest aggregate actual emissions for the boiler serving an EGU and the unit or units to be retired, and,

(iii) An emission reduction from a retirement used as a Phase 1 compliance option shall not be used as a Phase 2 compliance option.

(3) The owner or operator of an ICI boiler may operate the ICI boiler in compliance with one of the options listed in this subdivision in lieu of complying with the applicable emissions limitations of subsection (d) of this section. The options are available as an alternative to any Phase 1 or Phase 2 emissions limitation set out in subsection (d) of this section unless otherwise specified. The actions specified in a compliance plan for a Phase 1 emissions limitation shall be implemented no later than June 1, 2018 or, for a Phase 2 emissions limitation, no later than June 1, 2023:

(A) For a Phase 1 emissions limitation, reduce the lb/MMBtu average emission rate from the subject emission unit by at least 40% from a 2014 baseline average emission rate, as determined by a CEM system in accordance with former section 22a-174-22 of the RCSA and excluding periods of startup, shutdown or malfunction, or, if the subject emission unit does not have a CEM system, by the most recent emission test performed pursuant to former section 22a-174-22 of the RCSA. An owner or operator may request an alternative baseline year if the emissions in the alternative year are more representative of typical unit operations;

(B) For a Phase 2 emissions limitation, reduce the lb/MMBtu average emission rate from the subject emission unit by at least 40% from a 2019 baseline average emission rate, as determined by a CEM system in accordance with subsection (m) of this section, or, if the subject emission unit does not have a CEM system, by the most recent emission test performed either pursuant to subsection (l) of this section or former section 22a-174-22 of the RCSA. An owner or operator may request an alternative baseline year if the emissions in the alternative year are more representative of typical unit operations;

(C) For a Phase 1 emissions limitation, use existing, banked, NOx DERs to comply with the applicable emissions limitation of subsection (d) of this section in accordance with an order or permit modification issued by the commissioner;

(D) For the Phase 1 emissions limitations in subparagraphs (A) and (B) of subsection (d)(3) of this section, accept an enforceable cap on mass emissions or hours of operation. The enforceable cap shall achieve the lower of a 40% reduction in subject emission unit 2014 allowable emissions or the average of the actual emissions for the two non-overlapping

consecutive 12-month periods between January 1, 2014 and March 1, 2017 with the highest actual emissions, determined as follows:

(i) Measured by a CEM system in accordance with former section 22a-174-22 of the RCSA, or,

(ii) If the subject emission unit does not have a CEM system, calculated from the most recent emissions test performed pursuant to former section 22a-174-22 of the RCSA;

(E) For the Phase 2 emissions limitations in subparagraphs (C) and (D) of subsection (d)(3) of this section, accept an enforceable cap on mass emissions or hours of operation. The enforceable cap shall achieve the lower of a 40% reduction in subject emission unit 2019 allowable emissions or the actual emissions over the consecutive 12-month period between June 1, 2018 and March 1, 2020 with the highest actual emissions, determined as follows:

(i) Measured by a CEM system in accordance with subsection (m) of this section, or,

(ii) If the subject emission unit does not have a CEM system, calculated from the most recent emissions test performed pursuant to former section 22a-174-22 of the RCSA or subsection (l) of this section, whichever applies;

(F) To satisfy the Phase 1 and Phase 2 emissions limitations of subsection (d)(3) of this section:

(i) Operate an ICI boiler subject to 40 CFR 63, Subpart DDDDD, as a “unit designed to burn gas 1 subcategory,” as defined in 40 CFR 63.7575, and comply with the emissions limitation of subsection (d)(3)(A) of this section for operation on gas, or

(ii) Operate an ICI boiler subject to 40 CFR 63 Subpart JJJJJ, as a “gas-fired boiler,” as defined in 40 CFR 63.11237, and comply with the emissions limitation of subsection (d)(3)(A) of this section for operation on gas; or

(G) Commit to retire another unit or units located at the same facility as the ICI boiler. The unit or units to be retired shall cease operations no earlier than May 3, 2016 and no later than June 1, 2018 for a Phase 1 emissions limitation or no earlier than May 3, 2016 and no later than June 1, 2023 for a Phase 2 emissions limitation. This option shall result in a reduction in maximum allowable mass emissions equal to or greater than the NOx emissions reduction that would be achieved if:

(i) For a Phase 1 emissions limitation, the ICI boiler and the retired unit or units complied with the applicable Phase 1 emissions limitations of subsection (d) of this section during the consecutive 12-month period between January 1, 2014 and March 1, 2017 with the highest aggregate actual emissions for the ICI boiler and the unit or units to be retired, or,

(ii) For a Phase 2 emissions limitation, the ICI boiler and the retired unit or units complied with the applicable Phase 2 emissions limitations in subsection (d) of this section during the consecutive 12-month period between June 1, 2018 and March 1, 2020 with the highest aggregate actual emissions for the ICI boiler and the unit or units to be retired, and,

(iii) An emission reduction from a retirement used as a Phase 1 compliance option shall not be used as a Phase 2 compliance option.

(4) The owner or operator of a simple cycle combustion turbine may operate the simple cycle combustion turbine in compliance with one of the options listed in this subdivision in lieu of complying with the applicable emissions limitations of subsection (d) of this section. The options are available as an alternative to any Phase 1 or Phase 2 emissions limitation

set out in subsection (d) of this section unless otherwise specified. The actions specified in a compliance plan for a Phase 1 emissions limitation shall be implemented no later than June 1, 2018 or, for a Phase 2 emissions limitation, no later than June 1, 2023:

(A) To satisfy the non-ozone season emissions limitations in subsections (d)(4)(B) and (d)(4)(D) of this section, install and operate water injection technology. Water injection technology shall be operated at all times that the simple cycle combustion turbine is operating, except as otherwise provided in a permit or order, and the water-to-fuel ratio shall be continuously monitored. The water-to-fuel ratio that is acceptable during operation shall be established during the initial performance test, or, if the emission unit has a CEM system, during the initial relative accuracy test audit;

(B) For a Phase 1 emissions limitation, reduce the lb/MMBtu average emission rate or ppmvd average emission concentration from the subject emission unit by at least 40% from a 2014 baseline average emission rate or concentration, as determined by a CEM system in accordance with former section 22a-174-22 of the RCSA and excluding periods of startup, shutdown or malfunction, or, if the subject emission unit does not have a CEM system, by the most recent emission test performed pursuant to former section 22a-174-22 of the RCSA. An owner or operator may request an alternative baseline year if the emissions in the alternative year are more representative of typical unit operations;

(C) For a Phase 2 emissions limitation, reduce the lb/MMBtu average emission rate or ppmvd average emission concentration from the subject emission unit by at least 40% from a 2019 baseline average emission rate or concentration, as determined by a CEM system in accordance with subsection (m) of this section, or, if the subject emission unit does not have a CEM system, by the most recent emission test performed either pursuant to subsection (l) of this section or former section 22a-174-22 of the RCSA. An owner or operator may request an alternative baseline year if the emissions in the alternative year are more representative of typical unit operations;

(D) For a Phase 1 emissions limitation, use existing, banked, NO_x DERCs to comply with the applicable emissions limitations of subsection (d) of this section in accordance with an order or permit modification issued by the commissioner;

(E) Reserved; or

(F) Commit to retire another unit or units located at the same facility as the simple cycle combustion turbine. The unit or units to be retired shall cease operations no earlier than May 3, 2016 and no later than June 1, 2018 for a Phase 1 emissions limitation or no earlier than May 3, 2016 and no later than June 1, 2023 for a Phase 2 emissions limitation. This option shall result in a reduction in maximum allowable mass emissions equal to or greater than the NO_x emissions reduction that would be achieved if:

(i) For a Phase 1 emissions limitation, the simple cycle combustion turbine and the retired unit or units complied with the applicable Phase 1 emissions limitations of subsection (d) of this section during the consecutive 12-month period between January 1, 2014 and March 1, 2017 with the highest aggregate actual emissions for the simple cycle combustion turbine and the unit or units to be retired, or,

(ii) For a Phase 2 emissions limitation, the simple cycle combustion turbine and the retired unit or units complied with the applicable Phase 2 emissions limitations in subsection (d) of this section during the consecutive 12-month period between June 1, 2018 and March

1, 2020 with the highest aggregate actual emissions for the simple cycle combustion turbine and the unit or units to be retired, and,

(iii) An emission reduction from a retirement used as a Phase 1 compliance option shall not be used as a Phase 2 compliance option.

(5) The owner or operator of a combined cycle combustion turbine may operate the combined cycle combustion turbine in compliance with one of the options listed in this subdivision in lieu of complying with the applicable emissions limitations of subsection (d) of this section. The options are available as an alternative to any Phase 1 or Phase 2 emissions limitation set out in subsection (d) of this section unless otherwise specified. The actions specified in a compliance plan for a Phase 1 emissions limitation shall be implemented no later than June 1, 2018 or, for a Phase 2 emissions limitation, no later than June 1, 2023, unless otherwise specified in this subdivision:

(A) For a Phase 1 emissions limitation, use existing, banked, NO_x DERCs to comply with the applicable emissions limitation of subsection (d) of this section in accordance with an order or permit modification issued by the commissioner;

(B) Commit to combust only gas if a permit or registration for the combined cycle combustion turbine allows the turbine to combust either gas or other oil. This option is only available if operation on gas results in quantifiable annual NO_x emissions equal to or less than the NO_x emissions expected if the combined cycle combustion turbine operated in compliance with the applicable emissions limitations of subsection (d) of this section by combusting other oil and gas. For a Phase 1 emissions limitation, this option shall be implemented no later than September 1, 2018. An owner or operator operating under this option may enter into an interruptible supply agreement with the gas supplier. If the supply of gas is curtailed in accordance with such agreement, the owner or operator may operate the emission unit on an alternative fuel for the period of the curtailment if the emission unit is operated to minimize emissions for such alternative fuel type; or

(C) Commit to retire another unit or units located at the same facility as the combined cycle combustion turbine. The unit or units to be retired shall cease operations no earlier than May 3, 2016 and no later than June 1, 2018 for a Phase 1 emissions limitation or no earlier than May 3, 2016 and no later than June 1, 2023 for a Phase 2 emissions limitation. This option shall result in a reduction in maximum allowable mass emissions equal to or greater than the NO_x emissions reduction that would be achieved if:

(i) For a Phase 1 emissions limitation, the combined cycle combustion turbine and the retired unit or units complied with the applicable Phase 1 emissions limitations of subsection (d) of this section during the consecutive 12-month period between January 1, 2014 and March 1, 2017 with the highest aggregate actual emissions for the combined cycle combustion turbine and the unit or units to be retired, or,

(ii) For a Phase 2 emissions limitation, the combined cycle combustion turbine and the retired unit or units complied with the applicable Phase 2 emissions limitations in subsection (d) of this section during the consecutive 12-month period between June 1, 2018 and March 1, 2020 with the highest aggregate actual emissions for the combined cycle combustion turbine and the unit or units to be retired, and,

(iii) An emission reduction from a retirement used as a Phase 1 compliance option shall not be used as a Phase 2 compliance option.

(6) The owner or operator of a reciprocating engine may operate the reciprocating engine in compliance with one of the options listed in this subdivision in lieu of complying with the applicable emissions limitations of subsection (d) of this section. The options are available as an alternative to any Phase 1 or Phase 2 emissions limitation of subsection (d) of this section unless otherwise specified. The actions specified in a compliance plan for a Phase 1 emissions limitation shall be implemented no later than June 1, 2018 or, for a Phase 2 emissions limitation, no later than June 1, 2023:

(A) For a Phase 1 emissions limitation, reduce the g/bk hp-hr average emission rate from the subject emission unit by at least 40% from a 2014 baseline average emission rate, as determined by a CEM system in accordance with former section 22a-174-22 of the RCSA and excluding periods of startup, shutdown or malfunction, or, if the subject emission unit does not have a CEM system, by the most recent emission test performed pursuant to former section 22a-174-22 of the RCSA. An owner or operator may request an alternative baseline year if the emissions in the alternative year are more representative of typical unit operations;

(B) For a Phase 2 emissions limitation, reduce the g/bk hp-hr average emission rate from the subject emission unit by at least 40% from a 2019 baseline average emission rate, as determined by a CEM system in accordance with subsection (m) of this section, or, if the subject emission unit does not have a CEM system, by the most recent emission test performed either pursuant to subsection (l) of this section or former section 22a-174-22 of the RCSA. An owner or operator may request an alternative baseline year if the emissions in the alternative year are more representative of typical unit operations;

(C) For a Phase 1 emissions limitation, use existing, banked, NO_x DERCs to comply with the applicable emissions limitations of subsection (d) of this section in accordance with an order or permit modification issued by the commissioner;

(D) Reserved; or

(E) Commit to retire another unit or units located at the same facility as the reciprocating engine. The unit or units to be retired shall cease operations no earlier than May 3, 2016 and no later than June 1, 2018 for a Phase 1 emissions limitation or no earlier than May 3, 2016 and no later than June 1, 2023 for a Phase 2 emissions limitation. This option shall result in a reduction in maximum allowable mass emissions equal to or greater than the NO_x emissions reduction that would be achieved if:

(i) For a Phase 1 emissions limitation, the reciprocating engine and the retired unit or units complied with the applicable Phase 1 emissions limitations of subsection (d) of this section during the consecutive 12-month period between January 1, 2014 and March 1, 2017 with the highest aggregate actual emissions for the reciprocating engine and the unit or units to be retired, or,

(ii) For a Phase 2 emissions limitation, the reciprocating engine and the retired unit or units complied with the applicable Phase 2 emissions limitations in subsection (d) of this section during the consecutive 12-month period between June 1, 2018 and March 1, 2020 with the highest aggregate actual emissions for the reciprocating engine and the unit or units to be retired.

(iii) An emission reduction from a retirement used as a Phase 1 compliance option shall not be used as a Phase 2 compliance option.

(7) A plan to operate in accordance with a compliance option provided in this subsection shall include the following information:

(A) Legal name(s), address(es) and telephone number(s) of the owner and operator of the emission unit that is the subject of the compliance option. If the owner or operator is a corporation or a limited partnership transacting business in Connecticut, provide the exact name as registered with the Secretary of the State;

(B) Location address of the premises where the emission unit is located;

(C) Make and model of the emission unit;

(D) Actual emissions data, if available, or the manufacturer's estimates of emissions, if available;

(E) Identification of the compliance option that is the subject of the request and an explanation of the actions that will be taken to operate in compliance with that option. If the chosen option requires physical modification of an emission unit at the facility, a schedule for the modifications;

(F) An estimate of the NO_x emissions reductions achieved through compliance with the chosen option, including baseline emissions and the anticipated reduction achieved, and a comparison of the NO_x emissions reductions achieved through compliance with the chosen option to the NO_x emissions reductions that would have occurred if the emission unit complied with the emissions limitations in subsection (d) of this section; and

(G) Any other information requested by the commissioner upon reviewing the request.

(8) If a compliance option requires a new or modified permit pursuant to section 22a-174-3a of the RCSA, the owner or operator shall not commence an activity to implement the compliance option until the owner or operator has applied for and been issued the required permit or modification, except as otherwise authorized in section 22a-174-2a(e)(3)(C) of the RCSA subsequent to submission of a permit application.

(9) If the actions in a Phase 1 compliance plan do not require the owner or operator to either use NO_x DERCs or apply for and obtain a permit under section 22a-174-3a of the RCSA, the owner or operator may take actions described in the plan no less than 60 days after submitting the plan.

(10) Any use of NO_x DERCs for the purpose of complying with this section shall be:

(A) Consistent with the provisions of 40 CFR 51, Subpart U and the U.S. Environmental Protection Agency's "Improving Air Quality with Economic Incentive Programs," (EPA-452/R-01-001: January 2001); and

(B) Used within five calendar years of the year of generation.

(11) Unless otherwise specified in a permit or order, every compliance option provided in this subsection shall expire no later than May 1, 2028, by which date the subject emission unit shall comply with the applicable emissions limitations of this section or cease operation.

(h) Case-by-case RACT demonstration.

(1) An owner or operator may request the commissioner's approval for a case-by-case emissions limitation for an emission unit if the owner or operator demonstrates to the commissioner's satisfaction that an emissions limitation of subsection (d) of this section is not economically or technically feasible for the emission unit. In such a request for a case-by-case RACT determination, the owner or operator shall:

(A) Demonstrate that:

(i) The use of available emissions control technology is either technologically or economically infeasible for the emission unit that is the subject of the demonstration,

(ii) Each compliance option designated in subsection (g) of this section is either technologically or economically infeasible for the emission unit that is the subject of the demonstration, and

(iii) For the purposes of this subsection, economic feasibility is determined on a dollar/ton basis, where any value determined using a method approved by the commissioner that is equal to or less than \$13,118/ton NO_x reduced for a Phase 1 demonstration or \$13,635/ton NO_x reduced for a Phase 2 demonstration is presumed economically feasible;

(B) Recommend a case-by-case RACT emissions limitation that represents the lowest emissions limitation reasonable for the emission unit. An owner or operator may also recommend additional actions that will reduce NO_x emissions from stationary or mobile sources in Connecticut such as, but not limited to, an operational standard, work practices, a requirement to use air pollution control technology on another unit at the facility, a reduction in electric demand, or an energy efficiency improvement; and

(C) Calculate the NO_x emission reduction achievable by implementation of the recommended emissions limitation and additional actions, if any, including the method used and a comparison of the NO_x emissions reductions achieved, if any, through the recommended emissions limitation to the NO_x emissions reductions that would have occurred if the emission unit complied with the emissions limitations in subsection (d) of this section. A case-by-case RACT demonstration shall provide a net air quality benefit including real and quantifiable reductions in NO_x emissions from any facility in Connecticut under control of the owner or operator submitting the demonstration. A reduction in NO_x emissions at a facility may be used in two or more case-by-case RACT demonstrations if the emission units that are the subject of the demonstrations and the facility at which the NO_x emission reduction occurs are under control of the same owner or operator.

(2) Except as provided in subdivision (11) of subsection (n) of this section, a request for a case-by-case RACT determination shall be submitted to the commissioner for review no later than June 1, 2017 for a Phase 1 emissions limitation or January 1, 2021 for a Phase 2 emissions limitation. For a Phase 1 emissions limitation, an owner or operator who has submitted a request and case-by-case RACT demonstration may operate in accordance with the recommendations in the case-by-case RACT demonstration on and after June 1, 2018 to comply with the applicable Phase 1 emissions limitation if the commissioner has not approved the demonstration and if the actions recommended in a Phase 1 case-by-case RACT demonstration do not require the owner or operator to apply for and obtain a permit under RCSA section 22a-174-3a. Such an owner or operator may continue to operate in accordance with the recommendations in the demonstration until the earlier of the date the commissioner issues a final decision on the submitted demonstration or June 1, 2023.

(3) A case-by-case RACT emissions limitation or additional actions shall be established in a permit or order issued by the commissioner. Such case-by-case RACT emissions limitation shall apply to the subject emission unit or units and any other equipment located in Connecticut under the control of the owner or operator as described in the case-by-case RACT demonstration and specified in the resulting permit or order. The commissioner shall submit such order or permit to the Administrator for approval.

(4) Unless otherwise specified in an order or permit, operations in accordance with an approved case-by-case demonstration shall expire no later than May 1, 2028, at which time the owner or operator shall operate the subject emission unit or units in compliance with the applicable emissions limitations and other requirements of this section or cease operation.

(5) Concurrent with the request for a case-by-case RACT determination, the owner or operator of the emission unit that is the subject of the case-by-case demonstration may request the imposition of a limitation on the potential NO_x emissions or limitations on fuel use, raw materials processed or hours of operation for such emission unit for the commissioner's review and written approval. If approved by the commissioner, such limitation shall be imposed by permit or order. Such permit or order may also contain the commissioner's determination on the case-by-case RACT demonstration.

(6) A request for a case-by-case RACT determination submitted pursuant to this subsection shall be made on forms prescribed by the commissioner and performed according to procedures identified by the commissioner. A case-by-case RACT demonstration shall include the following steps:

(A) Identify all NO_x emission control alternatives available for use on the emission unit that is the subject of the demonstration. Available control alternatives include lower emitting practices and processes such as the use of control techniques and work practices, use of add-on control technologies or improvement in the performance of installed control technologies, or a combination of lower emitting practices and processes and add-on control technologies;

(B) Eliminate infeasible options from further consideration after identifying the physical, chemical or engineering circumstance that would preclude successful use of the control option;

(C) Evaluate the control effectiveness of feasible alternatives in terms of NO_x emissions reduced based on the potential emissions of the emission unit prior to use of the control alternative or the proposed emissions associated with the limitation requested pursuant to subdivision (5) of this subsection;

(D) Evaluate the cost of each feasible control alternative using a method approved by the commissioner. Cost shall be evaluated on an annual basis (8760 hours/year) at full load, unless the operation of the emission unit is subject to a practicably enforceable limitation in existence prior to the submission of the case-by-case RACT demonstration or the owner or operator has requested a limitation on NO_x emissions or unit operation in accordance with subdivision (5) of this subsection; and

(E) Evaluate the cost effectiveness of each feasible control alternative on an annual basis as the cost in US dollars per ton of NO_x reduced (\$/ton), where NO_x emissions prior to control and after control are based on either:

(i) The potential NO_x emissions of the emission unit, as limited by any practicably enforceable conditions in existence prior to the submission of the case-by-case RACT demonstration, or

(ii) The proposed NO_x emissions of the emission unit based on a proposed limitation submitted in accordance with subdivision (5) of this subsection.

(7) The case-by-case RACT determination approved by the commissioner shall be no

less stringent than the lowest NO_x emission rate achievable from the emission unit using a cost effective control alternative determined in accordance with subdivision (6) of this subsection. A cost effective control alternative shall have a cost effectiveness, expressed in US dollars per ton of NO_x reduced, equal to or less than the applicable threshold established in subparagraph (A) of subdivision (1) of this subsection.

(8) The net air quality benefit obtained from the case-by-case RACT determination shall not include the reduction in potential emissions of NO_x associated with any proposed limitation requested in accordance with subdivision (5) of this subsection.

(9) The owner or operator submitting a request for a case-by-case RACT determination shall, prior to submitting the request:

(A) Publish notice of such request in a newspaper of general circulation in the area in which the emission unit operates; and

(B) Notify the chief elected official of the municipality in which the emission unit that is the subject of the request is located.

(10) The owner or operator shall include a copy of the notice as it appeared in the newspaper in the submission to the commissioner of the case-by-case RACT demonstration and a signed statement certifying that the owner or operator notified the chief elected official of the municipality in which the emission unit that is the subject of the request is located.

(11) The owner or operator submitting a request for a case-by-case RACT determination shall hold an informational hearing at which the owner or operator shall explain the purpose of and basis for the request, if a request to hold such hearing is made to the owner or operator no later than 14 days after the date of publication of the notice required pursuant to subdivision (9) of this subsection. The scheduled date for the hearing shall be no earlier than 30 days from the date of publication of the notice required pursuant to subdivision (9) of this subsection. If no request for the informational hearing is made within the 14 day period, the owner or operator may cancel the informational hearing. The notice shall identify the method and time for announcing that the hearing has been cancelled and provide a telephone number for the public to call to determine if the public hearing will occur as noticed or is cancelled. Within ten business days of the scheduled date of the public hearing, the owner or operator shall submit to the commissioner a certification that either the hearing was held as scheduled or that the hearing was cancelled for lack of a request. If a hearing is held, the certification shall be accompanied by a list of attendees and a summary of all comments made.

(12) The notice required pursuant to subdivision (9) of this subsection shall include the following information:

(A) A description of the demonstration sufficient for an interested person to understand the technical and economic basis for the elements of the demonstration and the resulting request to the Department, including the emission rate requested and the emissions limitation that would apply to the emission unit for which the demonstration is made if the request is not granted;

(B) Identification of the name of the owner or operator; a description of the emission unit to which the demonstration applies including the make and model, capacity and purpose; the location of the emission unit; and the name, address and telephone number of a person from whom more information about the demonstration may be obtained;

(C) The name, telephone number and electronic mail address of an individual from whom an interested person may obtain a copy of the demonstration;

(D) The date, time and location of the public informational hearing to be held, if any request for such hearing is submitted by any member of the public within 14 days of the date of publication of the notice, and the address for the public to send a request for such hearing; and

(E) Indication that if no request for the informational hearing is made by a member of the public to the owner or operator by the date designated in the notice that such hearing will not occur and specification for the method and time for announcing that the hearing has been cancelled and a telephone number for the public to call to determine if the public hearing will occur as noticed or is cancelled.

(i) Tune-up requirements.

(1) Except as provided in subdivision (2) of this subsection or subdivision (12) of subsection (n) of this section, the owner or operator of an ICI boiler or reciprocating engine subject to this section shall conduct an inspection and tune-up of the emission unit a minimum of once per calendar year beginning with year 2018. Each subsequent annual tune-up shall be performed no earlier than 180 days after the previous tune-up conducted under this section. The inspection and tune-up of the emission unit shall be conducted according to the manufacturer's recommended procedures, or, if the manufacturer's recommendations are no longer available, according to best available practices.

(2) The owner or operator of an emission unit that is subject to 40 CFR 60 or 40 CFR 63 and required to conduct a periodic tune-up by the applicable requirements of 40 CFR 60 or 40 CFR 63 may conduct tune-ups according to the schedule and procedures of the applicable requirements of 40 CFR 60 or 40 CFR 63. If the period between tune-ups in the applicable requirements of 40 CFR 60 or 40 CFR 63 is greater than 60 months, a tune-up shall be conducted at least once every 60 months.

(j) Record keeping.

(1) The owner or operator of an emission unit subject to this section shall retain all records and reports produced pursuant to this section for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the premises where the emission unit is located, unless the commissioner approves in writing the use of another location in Connecticut.

(2) Except as provided in subdivision (12) of subsection (n) of this section, the owner or operator of an emission unit subject to this section shall make and keep the following records on and after May 1, 2018:

(A) For an emergency engine not subject to 40 CFR 63 Subpart ZZZZ, records of total monthly operating hours of such engine, identifying the dates and operating hours of non-emergency use and the reason for non-emergency operation. For an emergency engine subject to 40 CFR 63 Subpart ZZZZ, records shall be those required by 40 CFR 63.6655;

(B) The date and work performed for repairs, replacement of parts and other maintenance;

(C) Records of the dates and times of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions

at the time of testing, and the results of such testing;

(D) For an emission unit that has or is required to have a CEM system for NO_x:

(i) Records of all performance evaluations, calibration checks and adjustments on such monitor,

(ii) A record of maintenance performed,

(iii) All data necessary to complete the quarterly reports required under subsection (k)(3) of this section, and

(iv) Charts, electronically stored data, and printed records produced by such CEM system as needed to demonstrate compliance with the requirements of this section;

(E) For each tune-up, for each emission unit, conducted pursuant to subsection (i) of this section:

(i) The date on which the emission unit is tuned-up; the name, title and affiliation of the person performing the tune-up, and a description of work performed, and

(ii) The procedures used to inspect and perform adjustments;

(F) Copies of all documents submitted to the commissioner pursuant to this section; and

(G) Any other records or reports required by an order or permit issued by the commissioner pursuant to this section.

(k) Reporting.

(1) Not more than 60 days after the completion of emission tests conducted under subsection (l) of this section, the owner or operator of such emission unit shall submit a written report of the results of such testing to the commissioner.

(2) Not more than 60 days after the completion of a certification test conducted under the requirements of subsection (m) of this section, the owner or operator of such emission unit shall submit a written report of the results of such testing to the commissioner.

(3) The owner or operator of any emission unit that has or is required to have a CEM system for NO_x shall submit to the commissioner, on forms provided by the commissioner, written quarterly reports of excess emissions and CEM system malfunctions. Such reports shall be submitted to the commissioner on or before January 30, April 30, July 30 and October 30 of each year and shall include:

(A) All daily block average data, in a format acceptable to the commissioner, for the three calendar month period ending the month before the due date of the report;

(B) The date and time of commencement and completion of each period of excess emissions;

(C) The magnitude and suspected cause of the excess emissions;

(D) Actions taken to correct the excess emissions;

(E) The date and time when each malfunction of the CEM system commenced and ended;

(F) Actions taken to correct each malfunction; and

(G) If no excess emissions or CEM system malfunctions occur during a quarter, the owner or operator shall indicate that no excess emissions or malfunctions occurred during the quarter.

(4) Upon written notice, the commissioner may require any owner or operator subject to this section to provide all hourly CEM data, in a format acceptable to the commissioner, for the three calendar month period identified in such written notice.

(l) Emission testing.

(1) The owner or operator of an emission unit subject to this section shall demonstrate compliance with the applicable emissions limitations of this section by one of the following means:

(A) Conducting periodic emissions testing in accordance with this subsection;

(B) For an emission unit subject to 40 CFR 60 Subpart KKKK, conducting periodic emissions testing in accordance with Subpart KKKK;

(C) For an emission unit subject to any other New Source Performance Standard in 40 CFR 60, conducting periodic emissions testing in accordance with the applicable New Source Performance Standard in 40 CFR 60, except as provided in subdivision (2) of this subsection with respect to frequency and subdivision (7) of this subsection with respect to load; or

(D) Installing and operating a CEM system for NO_x in accordance with subsection (m) of this section.

(2) If an owner or operator is conducting testing in accordance with subdivision (1)(C) of this subsection and the applicable New Source Performance Standard does not identify a periodic test frequency, then the frequency of periodic emissions testing shall be determined in accordance with the provisions of subdivision (4) of this subsection for Phase 1 and the provisions of subdivision (5) of this subsection for Phase 2.

(3) The owner or operator of an emission unit constructed after December 22, 2016 shall conduct an initial emission test to demonstrate compliance with the Phase 2 emission limitations of this section no later than one hundred eighty (180) days after the emission unit commences operation.

(4) The owner or operator of an existing emission unit shall conduct an initial emissions test on a date during Phase 1 that is no more than 63 calendar months following the date of the last emission test performed pursuant to former section 22a-174-22(k) of the RCSA.

(5) The owner or operator of an existing emission unit subject to this section shall conduct the emission test following the initial emissions test on a date after May 31, 2023 and no later than June 1, 2025. Subsequently, an owner or operator shall conduct emission tests within every 63 calendar months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier.

(6) Each emission test shall be conducted in accordance with section 22a-174-5 of the RCSA and compliance with the emissions limitations of this section shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period except as follows:

(A) As otherwise specified in an applicable New Source Performance Standard in 40 CFR 60; or

(B) If the commissioner determines that three one-hour tests are not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing where compliance with the emissions limitations of this section shall be determined based on the average of test runs shorter than a one-hour period. For the first time that an emissions unit is tested with a shorter than one-hour test run as provided in this subdivision, approval of the commissioner for a shorter than one-hour test run shall be

received prior to testing by submission of a request to the commissioner at least 120 days prior to the scheduled testing. The request shall specify a test run duration and describe why a shorter time period is necessary.

(7) An owner or operator shall demonstrate compliance with the emissions limitations of this section using sampling and analytical procedures under 40 CFR 60, Appendix A or, for affected units, under 40 CFR 75, or under procedures in RCSA section 22a-174-5(d). Sampling shall be conducted when the emission unit is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above 90 percent of maximum capacity, except as follows:

(A) If the commissioner determines that operating at or above 90 percent of maximum capacity for an emission unit during sampling is not reasonable given the location, configuration or operating conditions of an emission unit, the commissioner may approve testing of an emission unit at an alternative maximum capacity where compliance with the emissions limitations of subsection (d) of this section shall be determined based on operating at or above 90 percent of the alternative maximum capacity approved by the commissioner; and

(B) Any emission unit that has operated in excess of 100 percent of its maximum capacity at any time since the most recent performance test performed pursuant to this section shall be tested when the emission unit is operating at or above 90 percent of its highest operating rate since the most recent performance test performed pursuant to this section.

(8) If an emission unit owner or operator is unable to conduct scheduled emission testing required by this subsection due to force majeure, the owner or operator shall conduct the required emission testing as soon as practicable after the force majeure event occurs.

(m) Monitoring.

(1) The owner or operator of any emission unit that emits more than one hundred (100) tons of NO_x from a single stack during any calendar year shall install, calibrate, maintain, operate and certify a CEM system for NO_x for each such stack in accordance with section 22a-174-4a of the RCSA. For an emission unit subject to this section with a CEM system for NO_x that was installed for any purpose prior to adoption of this section, the owner or operator shall calibrate, maintain, operate and certify such CEM system to demonstrate compliance with this section.

(2) If an owner or operator uses a CEM system to monitor NO_x emissions, the owner or operator shall collect quality assured CEM data for all emission unit operating conditions. Data collection shall include periods of startup or shutdown, monitoring system malfunctions, out-of-control periods, while conducting maintenance or repairs, and periods of required monitoring system quality assurance or quality control activities, such as calibration checks and required zero and span adjustments.

(3) Emissions data used to determine compliance with the applicable emissions limitations of subsection (d) of this section shall not include data collected during the following periods:

(A) When the monitoring system is out-of-control as specified in the facility-specific monitoring plan;

(B) While conducting required monitoring system quality assurance or quality control

activities, including calibration checks and required zero and span adjustments;

(C) While conducting maintenance or repairs of the monitoring system to prevent or correct a malfunction; or

(D) When the emission unit is not operating.

(4) The owner or operator shall notify the commissioner in writing at least 30 days prior to conducting any performance or quality assurance testing of any CEM for NO_x. Any such testing shall be conducted in accordance with a testing protocol approved by the commissioner. Any CEM for NO_x shall be installed, calibrated and operated in accordance with the performance and quality assurance specifications contained in section 22a-174-4a of the RCSA and 40 CFR 60, Subpart A, Appendix B and Appendix F, or, for affected units, 40 CFR 75.

(5) Compliance with the seasonal limits of subsection (d) of this section shall be determined using emissions and operating data for the entire five-month period for an ozone season emissions limitation or for the entire seven-month period for a non-ozone season emissions limitation, except as follows:

(A) For the 2018 or 2023 ozone season, compliance shall be determined based on data collected June 1 through September 30; or

(B) If an emission unit commences initial operation during the ozone season or non-ozone season, compliance shall be determined based only on the portion of the season in which the unit operated.

(n) **Compliance by bumped-up RACT units.**

(1) The owner or operator of a bumped-up RACT unit shall comply with the applicable Phase 2 emissions limitations of subsection (d) of this section no later than November 7, 2025.

(2) The owner or operator of a bumped-up RACT unit who is unable to comply with the applicable Phase 2 emissions limitation of subsection (d) of this section as of November 7, 2025 and who has not submitted a plan pursuant to subdivision (3) of this subsection or a demonstration pursuant to subdivision (11) of this subsection shall:

(A) Cease operation no later than November 7, 2025; and

(B) Perform one of the following actions:

(i) If the bumped-up RACT unit is operating pursuant to a permit or registration, submit a request to the commissioner to revoke such permit or registration. Such a request shall be submitted no later than November 7, 2025, or

(ii) If the bumped-up RACT unit is not operating pursuant to a permit or registration, render the unit physically inoperable no later than November 7, 2025 and submit a statement to the commissioner signed by a responsible official and certified in accordance with RCSA section 22a-174-2a stating that the emission unit has been rendered physically inoperable. Such a statement shall be submitted no later than November 7, 2025.

(3) The owner or operator of a bumped-up RACT unit who is unable to operate the emission unit in accordance with an applicable Phase 2 emissions limitation of subsection (d) of this section and for which the owner or operator does not intend to submit a demonstration pursuant to subdivision (11) of this subsection or cease operation as provided in subdivision (2) of this subsection shall submit a plan to the commissioner to operate such bumped-up RACT unit in accordance with a compliance option identified in subdivision

(4), (5), (6), (7) or (8) of this subsection. Such a plan shall be submitted to the commissioner no later than September 1, 2024 and shall include all information specified in subdivision (7) of subsection (g) of this section. A compliance option provided in this subsection shall be established by the commissioner through the issuance of an order, permit or permit modification to the owner or operator of such bumped-up RACT unit.

(4) The owner or operator of a bumped-up RACT unit that is a boiler serving an EGU may operate the boiler serving the EGU in compliance with one of the options in subparagraph (B), (E) or (G) of subdivision (2) of subsection (g) of this section in lieu of complying with the applicable Phase 2 emissions limitation of subsection (d) of this section. The actions specified in a compliance plan shall be implemented no later than November 7, 2025. Any owner or operator that complies with this subsection by implementing the option in subsection (g)(2)(G) of this section, shall cease operation of the unit or units to be retired no earlier than October 7, 2022 and no later than November 7, 2025.

(5) The owner or operator of a bumped-up RACT unit that is an ICI boiler may operate the ICI boiler in compliance with one of the options listed in subparagraph (B), (E), (F) or (G) of subdivision (3) of subsection (g) of this section in lieu of complying with the applicable Phase 2 emissions limitation of subsection (d) of this section. The actions specified in a compliance plan shall be implemented no later than November 7, 2025. Any owner or operator that complies with this subsection by implementing the option in subsection (g)(3)(G) of this section, shall cease operation of the unit or units to be retired no earlier than October 7, 2022 and no later than November 7, 2025.

(6) The owner or operator of a bumped-up RACT unit that is a simple cycle combustion turbine may operate the simple cycle combustion turbine in compliance with any of the options listed in subparagraph (A), (C) or (F) of subdivision (4) of subsection (g) of this section in lieu of complying with the applicable Phase 2 emissions limitation of subsection (d) of this section. The actions specified in a compliance plan shall be implemented no later than November 7, 2025. Any owner or operator that complies with this subsection by implementing the option in subsection (g)(4)(F) of this section, shall cease operation of the unit or units to be retired no earlier than October 7, 2022 and no later than November 7, 2025.

(7) The owner or operator of a bumped-up RACT unit that is a combined cycle combustion turbine may operate the combined cycle combustion turbine in compliance with subparagraph (B) or (C) of subdivision (5) of subsection (g) of this section in lieu of complying with the applicable Phase 2 emissions limitation of subsection (d) of this section. The actions specified in a compliance plan shall be implemented no later than November 7, 2025. Any owner or operator that complies with this subsection by implementing the option in subsection (g)(5)(C) of this section, shall cease operation of the unit or units to be retired no earlier than October 7, 2022 and no later than November 7, 2025.

(8) The owner or operator of a bumped-up RACT unit that is a reciprocating engine may operate the reciprocating engine in compliance with subparagraph (B) or (E) of subdivision (6) of subsection (g) of this section in lieu of complying with the applicable Phase 2 emissions limitation of subsection (d) of this section. The actions specified in a compliance plan shall be implemented no later than November 7, 2025. Any owner or operator that complies with this subsection by implementing the option in subsection (g)(6)(E) of this

section, shall cease operation of the unit or units to be retired no earlier than October 7, 2022 and no later than November 7, 2025.

(9) Any owner or operator of a bumped-up RACT unit that implements a compliance option as provided in subdivision (4), (5), (6), (7) or (8) of this subsection in lieu of complying with the applicable Phase 2 emissions limitation of subsection (d) of this section shall comply with subdivision (8) of subsection (g) of this section, as necessary.

(10) Unless otherwise specified in a permit or order, every compliance option provided in subdivisions (4) to (8), inclusive, of this subsection shall expire no later than May 1, 2028, by which date the subject emission unit shall comply with the applicable Phase 2 emissions limitation of subsection (d) of this section or cease operation.

(11) Any owner or operator of a bumped-up RACT unit may request the commissioner's approval for a case-by-case emissions limitation for a bumped-up RACT unit as provided in subsection (h) of this section. For a bumped-up RACT unit demonstration, economic feasibility as provided in subsection (h)(1)(A)(iii) of this section shall use a \$13,635/ton NO_x reduced threshold. A request for a case-by-case RACT demonstration shall be submitted no later than June 1, 2024. As provided in subsection (h)(4) of this section, operation of a bumped-up RACT unit in accordance with a case-by-case demonstration shall expire no later than May 1, 2028, unless otherwise specified in an order or permit.

(12) Any owner or operator of a bumped-up RACT unit shall:

(A) Comply with the tune-up requirements of subsection (i) of this section beginning with year 2025;

(B) Make and keep records as required in subsection (j) of this section beginning November 7, 2025;

(C) Make reports as required in subsection (k) of this section;

(D) Conduct an initial emission test on a date after November 7, 2025 but no later than November 7, 2026. Emission testing shall be conducted as provided in subsection (l) of this section; and

(E) Comply with the monitoring requirements of subsection (m) of this section.

(Effective December 22, 2016; Amended October 8, 2019; Amended October 28, 2022; Amended November 13, 2023)