

RULE 1100 IMPLEMENTATION SCHEDULE FOR NO_x FACILITIES

(a) Purpose

The purpose of this rule is to establish the implementation schedule for Regulation XX NO_x RECLAIM facilities that are transitioning to a command-and-control regulatory structure.

(b) Applicability

This rule applies to RECLAIM or former RECLAIM facilities that own or operate equipment that meets the applicability provisions specified in:

- (1) Rule 1146 – Emissions of Oxides of Nitrogen from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters; or
- (2) Rule 1146.1 – Emissions of Oxides of Nitrogen from Small Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters.

(c) Definitions

- (1) BTU means British thermal unit or units.
- (2) FORMER RECLAIM FACILITY means a facility that was in the Regional Clean Air Incentives Market, as established in Regulation XX, that has received a final determination notification, and is no longer in the RECLAIM program.
- (3) HEAT INPUT means the chemical heat released due to fuel combustion in a unit, using the higher heating value of the fuel. This does not include the sensible heat of incoming combustion air.
- (4) INDUSTRY-SPECIFIC CATEGORY means a RECLAIM or former RECLAIM facility that consists of refineries or electricity generating facilities.
- (5) NO_x EMISSIONS means the sum of nitrogen oxide and nitrogen dioxide in the flue gas, collectively expressed as nitrogen dioxide.
- (6) RATED HEAT INPUT CAPACITY means the heat input capacity specified on the nameplate of the combustion unit. If the combustion unit has been altered or modified such that its maximum heat input is different than the heat input capacity specified on the nameplate, the new maximum heat input shall be considered as the rated heat input capacity.
- (7) RECLAIM FACILITY means a facility that is currently in the Regional Clean Air Incentives Market, as established in Regulation XX.

- (8) RULE 1146 UNIT means any boiler, steam generator, water heater, or process heater as defined in Rule 1146 paragraph (b)(5) or (b)(21) with a rated heat input capacity that is equal to or greater than 5 million Btu per hour, excluding units specified in Rule 1146 subdivision (f).
 - (9) RULE 1146.1 UNIT means any boiler, steam generator, or process heater as defined in Rule 1146.1 paragraph (b)(4) or (b)(16) with a rated heat input capacity that is greater than 2 million Btu per hour and less than 5 million Btu per hour, excluding units specified in Rule 1146.1 subdivision (f).
 - (10) TITLE V FACILITY means any facility that meets the criteria set forth in Rule 3001 - Applicability.
- (d) Rule 1146 and Rule 1146.1 Implementation Schedule
- (1) An owner or operator of a RECLAIM or former RECLAIM facility with any Rule 1146 or Rule 1146.1 Unit shall:
 - (A) On or before [*12 months after date of adoption*], submit complete permit applications for any Rule 1146 and Rule 1146.1 Units that currently do not meet the applicable NOx concentration limit specified in subparagraph (d)(1)(E);
 - (B) On or before January 1, 2021 meet the applicable NOx concentration limit for a minimum of 75% of the total heat input for all Rule 1146 and Rule 1146.1 Units at the facility; and
 - (C) On or before January 1, 2022 meet the applicable NOx concentration limit of 100% of Rule 1146 and Rule 1146.1 Units at the facility.
 - (D) An owner or operator of a RECLAIM or former RECLAIM facility that elects to replace an existing Rule 1146 or Rule 1146.1 Unit with a new unit may use this replacement unit to meet the total heat input percentage requirement specified under subparagraphs (d)(1)(B) and (d)(1)(C) provided the owner or operator:
 - (i) On or before [*12 months after date of adoption*], notifies the Executive Officer in writing which unit(s) will be replaced, where the notification includes the Facility Name, Facility Identification Number, Permit Number for the unit(s) being replaced, size of the existing and new units (million Btu per hour), and fuel type; and submits a complete permit application for the new Rule 1146 and Rule 1146.1 Unit;
 - (ii) Replaces the existing unit on or before January 1, 2023; and

- (iii) Demonstrates that the heat input capacity of the new unit shall not exceed the total heat input capacity of existing units being replaced.
- (E) The applicable NOx concentration limits specified in subparagraphs (d)(1)(B) and (d)(1)(C) are as follows:
- (i) Rule 1146 Units shall meet the NOx concentration limit for the category of equipment specified in Rule 1146, Table 1146-1 – Standard Compliance Limits;
 - (ii) Rule 1146 Units that meet the applicability provisions specified in Rule 1146 paragraph (c)(2) shall meet the NOx concentration limit specified in Rule 1146 paragraph (c)(2).
 - (iii) Rule 1146 Units that meet the applicability provisions specified in Rule 1146 paragraph (c)(10) shall meet the NOx concentration limit specified in Rule 1146 paragraph (c)(10).
 - (iv) Rule 1146.1 Units shall meet the NOx concentration limit for the category of equipment specified in Rule 1146.1, Table 1146.1-1; and
 - (v) Rule 1146.1 Units that meet the applicability provisions specified in Rule 1146.1 paragraph (c)(7) shall meet the NOx concentration limit specified in Rule 1146.1 paragraph (c)(7).
- (2) An owner or operator of a RECLAIM or former RECALIM facility that has installed or modified the following Rule 1146 or Rule 1146.1 Units prior to *[date of adoption]* may defer compliance with the specified NOx emission limit until replacement of at least 50 percent of the unit's burners or *[15 years after the date of adoption]*, whichever is earlier:
- (A) Units subject to Rule 1146 subparagraph (c)(1)(H) or (c)(1)(I) complying with a NOx emission limit of 12 ppm or less as specified in the facility's District permit; or
 - (B) Units subject to Rule 1146.1 subparagraph (c)(1)(E) or (c)(1)(F) complying with a NOx emission limit of 12 ppm or less as specified in the facility's District permit; or
 - (C) Thermal fluid heaters, as defined in Rule 1146 paragraph (b)(27), subject to Rule 1146 subparagraph (c)(1)(K) complying with a NOx emission limit of 20 ppm or less as specified in the facility's District permit; or

- (D) Thermal fluid heaters, as defined in Rule 1146.1 paragraph (b)(21), subject to Rule 1146.1 subparagraph (c)(1)(G) complying with a NO_x emission limit of 20 ppm or less as specified in the facility's District permit.
- (3) Any unit at a RECLAIM or former RECLAIM facility that is subject to a NO_x emission limit in a different rule for an industry-specific category is not subject to the requirements contained in this subdivision.
- (e) The applicable monitoring, reporting, and recordkeeping requirements are as follows:
 - (1) For Title V facilities, an owner or operator of a RECLAIM or former RECLAIM facility shall comply with the monitoring, reporting, and recordkeeping requirements specified in Rule 2012.
 - (2) Except for Title V facilities, upon meeting the applicable NO_x concentration limit for all of the Rule 1146 and Rule 1146.1 Units at the facility as specified in subparagraph (d)(1)(C) or upon the date that the RECLAIM facility becomes a former RECLAIM facility, whichever occurs earlier, an owner or operator of a RECLAIM or former RECLAIM facility shall comply with the monitoring, reporting, and recordkeeping requirements in the applicable rule(s) as specified in subdivision (b).