

**RULE 1100                      IMPLEMENTATION SCHEDULE FOR NO<sub>x</sub> FACILITIES**

(a) Purpose

The purpose of this rule is to establish the implementation schedule for Regulation XX NO<sub>x</sub> 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;
- (2) Rule 1146.1 – Emissions of Oxides of Nitrogen from Small Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters;  
or
- (3) Rule 1146.2 – Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers and Process Heaters.

(c) Definitions

- (1) BTU means British thermal unit or units.
- (2) 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.
- (3) 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.
- (4) INDUSTRY-SPECIFIC CATEGORY means a RECLAIM or former RECLAIM facility that consists of refineries or electricity generating facilities, or other industry categories as determined in writing by the Executive Officer.
- (5) NO<sub>x</sub> 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)(19) that is equal to or greater than 5 million Btu per hour rated heat input capacity with the exception of:
    - (A) boilers used by electric utilities to generate electricity; and
    - (B) boilers and process heaters with a rated heat input capacity greater than 40 million Btu per hour that are used in petroleum refineries; and
    - (C) sulfur plant reaction boilers.
  - (9) RULE 1146.1 UNIT means any boiler, steam generator, or process heater as defined in Rule 1146.1 paragraph (b)(4) or (b)(14) that is greater than 2 million Btu per hour and less than 5 million Btu per hour rated heat input capacity.
  - (10) RULE 1146.2 UNIT means any boiler, steam generator, process heater or water heater as defined in Rule 1146.2 paragraph (b)(1), (b)(12) or (b)(26) that is less than or equal to 2 million Btu per hour rated heat input capacity.
- (d) Implementation Schedule
- (1) Rule 1146 and Rule 1146.1  
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 from date of adoption*], submit complete permit applications for any Rule 1146 and Rule 1146.1 Units that currently do not meet the applicable NO<sub>x</sub> concentration limit specified in subparagraph (d)(1)(E);
    - (B) On or before January 1, 2021 meet the applicable NO<sub>x</sub> 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 NO<sub>x</sub> 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 from 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 (MMBTU/hr), 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 and Schedule;
  - (ii) 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).
  - (iii) 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
  - (iiii) Rule 1146.1 Units that meet the applicability provisions specified in Rule 1146.1 paragraph (c)(8) shall meet the NOx concentration limit specified in Rule 1146.1 paragraph (c)(8).

- (2) Rule 1146.2  
By December 31, 2023, an owner or operator of a RECLAIM or former RECLAIM facility with any Rule 1146.2 Type 2 Units shall meet the NOx concentration limit specified in Rule 1146.2, paragraph (c)(1), unless a more stringent limit is applicable. A unit may be modified or demonstrated to meet the emission limits of Rule 1146.2, paragraph (c)(1), pursuant to the provisions of Rule 1146.2, subdivision (e).
- (3) Any RECLAIM or former RECLAIM facility that is identified in an industry-specific category is not subject to the requirements contained in this subdivision.
- (4) All Title V facilities subject to this rule shall comply with the monitoring, reporting, and recordkeeping requirements specified in Rule 2012.
- (5) For a non-Title V RECLAIM facility that becomes a former RECLAIM facility, the monitoring, reporting, and recordkeeping requirements in the applicable rule(s) as specified in subdivision (b) shall automatically apply.