

RULE 1147.2 NOX REDUCTIONS FROM METAL MELTING AND HEATING FURNACES

(a) Purpose

The purpose of this rule is to reduce emissions of Nitrogen Oxide (NO_x) and Carbon Monoxide (CO) from Metal Melting Furnaces, Metal Heat Treating Furnaces, Metal Heating Furnaces, and Metal Forging Furnaces.

(b) Applicability

This rule applies to an owner or operator of a Metal Melting Furnace, Metal Heat Treating Furnace, Metal Heating Furnace, or Metal Forging Furnace that requires a South Coast AQMD permit.

(c) Definitions

- (1) ALTERATION means any physical change or addition to an Existing Unit requiring an application for Permit to Construct pursuant to South Coast AQMD Rule 201 – Permit to Construct.
- (2) BTU means British thermal unit or units.
- (3) CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) means the total combined equipment and systems, including the sampling interface, analyzers, and data acquisition and handling system, used to continuously determine air contaminants and diluent gas concentrations and/or mass emission rate of a source effluent (as applicable).
- (4) DECOMMISSION means to permanently shut down a Unit by removing the fuel, air, electricity, or other utility source connected to it and inactivate the Unit's applicable South Coast AQMD permit.
- (5) EXISTING means operating or in place as of [*Date of Adoption*].
- (6) FORMER RECLAIM FACILITY means a facility, or any of its successors, that was in the Regional Clean Air Incentives Market (RECLAIM) program as of January 5, 2018, as established in Regulation XX, that has received a final determination notification, and is no longer in the RECLAIM program.
- (7) METAL FORGING FURNACE means a device which applies heat to a solid metal to allow for its further processing, forming, or shaping.
- (8) METAL HEAT TREATING FURNACE means a device where heat is applied to a solid metal in order to alter its chemical properties, alter its microstructure

Rule 1147.2 (Cont.)

(Adopted [Date of Adoption])

to achieve desired mechanical properties (strength, hardness, toughness, ductility, and corrosion resistance), or alter its surface chemistry.

- (9) METAL HEATING FURNACE means a device where heat is applied to a solid metal in order to alter its physical properties.
- (10) METAL MELTING FURNACE means a device where metal is heated to a molten state.
- (11) NEW UNIT means a Unit that is installed, relocated, or replaced after [Date of Adoption].
- (12) NON-RECLAIM FACILITY means a facility, or any of its successors, that was not in the RECLAIM program as of January 5, 2018, as established in Regulation XX.
- (13) OPERATING HOURS means the number of hours in which fuel is burned by a UNIT.
- (14) OXIDES OF NITROGEN (NOX) EMISSIONS is the sum of nitrogen oxide and nitrogen dioxide emitted, collectively expressed as nitrogen dioxide emissions.
- (15) RADIANT-TUBE BURNER means an indirect-fired burner where combustion takes place in a tube to prevent contact between the products of combustion and the parts being heated.
- (16) RATED HEAT INPUT means the gross heat input of the Unit specified on a permanent rating plate attached by the manufacturer to the Unit, or as permitted.
- (17) RECLAIM FACILITY means a facility, or any of its successors, that was in the RECLAIM program as of January 5, 2018, as established in Regulation XX and is still in the RECLAIM program.
- (18) REFRACTORY DRY-OUT means that period of time during which a Unit is either curing or drying-out refractory lining as a result of a New Unit installation, Existing Unit Alteration, or Existing Unit repair or maintenance.
- (19) SHUTDOWN is as defined in South Coast AQMD Rule 429 – Startup and Shutdown Exemption Provisions for Oxides of Nitrogen.
- (20) STARTUP is as defined in South Coast AQMD Rule 429 – Startup and Shutdown Exemption Provisions for Oxides of Nitrogen.
- (21) THERM means 100,000 Btu.

(22) UNIT means any Metal Melting Furnace, Metal Heat Treating Furnace, Metal Heating Furnace, or Metal Forging Furnace.

(d) Requirements

(1) Until an owner or operator is required to meet the NO_x and CO concentration limits in Table 1 or the alternative NO_x and CO concentration limits in Table 2 pursuant to the implementation schedule in subdivision (e), the owner or operator shall not operate a Unit that exceeds a NO_x concentration limit of:

- (A) 60 ppmv, corrected to 3% oxygen, dry, for any Unit at a Non-RECLAIM Facility as demonstrated pursuant to subdivision (h); or
- (B) 102 ppmv, corrected to 3% oxygen, dry, for any Unit at a Former RECLAIM Facility or RECLAIM Facility as demonstrated pursuant to subdivision (h).

(2) An owner or operator of a Unit with a Rated Heat Input less than 40 MMBtu/hr shall not operate the Unit that exceeds the applicable NO_x or CO concentration limits in Table 1 beyond the dates specified in the implementation schedule in paragraph (e)(1) as demonstrated pursuant to subdivision (h).

(3) An owner or operator of a Unit with a Rated Heat Input less than 40 MMBtu/hr and where the burner age is less than 32 years old, as determined pursuant to subdivision (f), may meet the NO_x and CO concentration limits in Table 1 pursuant to the alternative implementation schedule in paragraph (e)(2), provided that:

- (A) The owner or operator operates the Unit in compliance with the permit if it has an Existing permit condition that complies with the alternative NO_x and CO concentration limits in Table 2; or
- (B) The Unit that does not have an Existing permit condition pursuant to subparagraph (d)(3)(A),
 - (i) Submits a permit application by July 1, 2023 to add a permit condition to the Permit to Operate that requires compliance with the alternative NO_x and CO concentration limits in Table 2; and
 - (ii) Demonstrates compliance with the alternative NO_x and CO concentration limits in Table 2 by a source test conducted pursuant to subdivision (h) and the source test report approved by the Executive Officer pursuant to the implementation

Rule 1147.2 (Cont.)

(Adopted [Date of Adoption])

schedule in paragraph (e)(2) where the source test has been conducted no later than 36 months prior to the application submittal and where no modification to the Unit has been made between the date of the source test and when the permit application is submitted.

- (4) An owner or operator of a Unit greater than or equal to 40 MMBtu/hr shall not operate a Unit that exceeds the applicable NOx or CO concentration limits in Table 1 beyond the dates specified in the implementation schedule in paragraph (e)(3).
- (5) An owner or operator of a New Unit shall not operate a New Unit that exceeds the applicable NOx or CO concentration limits in Table 3.
- (6) An owner or operator of a Unit is not required to meet the NOx or CO concentration limits in this subdivision (d) provided that:
 - (A) For a New Unit, the Unit has a permit condition that limits NOx emissions to less than one pound per day; or
 - (B) For an Existing Unit, the owner or operator demonstrates that NOx emissions are less than one pound per day pursuant to subdivision (g).
- (7) An owner or operator of a Unit demonstrating compliance with paragraph (d)(6) that fails to demonstrate compliance with subdivision (g) shall:
 - (A) Submit a permit application to meet the concentration limits in Table 1 within 30 days of the failure to demonstrate compliance with subdivision (g); and
 - (B) Meet the concentration limits in Table 1 within 12 months after a Permit to Construct is issued.

Table 1 – NOx and CO Concentration Limits for Existing Units

Unit Size	Furnace Type	Temperature	NOx Limit ^{1,2} (ppmv)	CO Limit ¹ (ppmv)
< 40 MMBtu/hr	Metal Melting	All Temperatures	40	1,000
	Metal Heat Treating, Metal Heating, and Metal Forging	≤ 1,200 °F	40	
		> 1,200 °F	50	
	Units with Radiant-Tube Burners	All Temperatures	50	
≥ 40 MMBtu/hr	All Units	All Temperatures	15	

¹ Corrected to 3% oxygen, dry

² Averaged over an 8-hour rolling interval for Units equipped with a certified NOx CEMS

Table 2 – Alternative NOx and CO Concentration Limits for Existing Units

Unit Size	Furnace Type	Temperature	NOx Limit ^{1,2} (ppmv)	CO Limit ¹ (ppmv)
< 40 MMBtu/hr	Metal Melting	All Temperatures	50	1,000
	Metal Heat Treating, Metal Heating, and Metal Forging	≤ 1,200 °F	50	
		> 1,200 °F	60	
	Units with Radiant-Tube Burners	All Temperatures	60	

¹ Corrected to 3% oxygen, dry

² Averaged over an 8-hour rolling interval for Units equipped with a certified NOx CEMS

Table 3 – NOx and CO Concentration Limits for New Units

Unit Size	Furnace Type	Temperature	NOx Limit ^{1,2} (ppmv)	CO Limit ¹ (ppmv)
< 40 MMBtu/hr	Metal Melting	All Temperatures	40	1,000
	Metal Heat Treating, Metal Heating, and Metal Forging	≤ 1,200 °F	30	
		> 1,200 °F	40	
	Units with Radiant-Tube Burners	All Temperatures	40	
≥ 40 MMBtu/hr	All Units	All Temperatures	15	

¹ Corrected to 3% oxygen, dry

² Averaged over an 8-hour rolling interval for Units equipped with a certified NOx CEMS

(e) Implementation Schedules

(1) An owner or operator of a Unit with a Rated Heat Input less than 40 MMBtu/hr that is required to meet the NOx and CO concentration limits in Table 1 pursuant to paragraph (d)(2) shall:

(A) Submit a permit application to add a permit condition for each Unit to limit NOx and CO concentrations to a level not to exceed the concentration limits in Table 1:

(i) On or before July 1, 2023 for any Unit where the burner age is 12 years or older, as determined pursuant to subdivision (f), as of January 1, 2023; or

Rule 1147.2 (Cont.)

(Adopted [Date of Adoption])

- (ii) On or before July 1 of the year when a Unit's burner age reaches 12 years, as determined pursuant to subdivision (f), by January 1 of that year; and
 - (B) Not operate a Unit that exceeds the NOx or CO concentration limits in Table 1 on and after 12 months following issuance of a permit.
- (2) An owner or operator of a Unit with a Rated Heat Input less than 40 MMBtu/hr that meets the requirements for use of an alternative implementation schedule pursuant to subparagraph (d)(3)(A) or (d)(3)(B), shall:
 - (A) Submit a permit application to add a permit condition for each Unit to limit NOx and CO concentrations to a level not to exceed the concentration limits in Table 1 on or before July 1 of the year when a Unit's burner age reaches 32 years, as determined pursuant to subdivision (f), by January 1 of that year; and
 - (B) Not operate the Unit that exceeds the NOx or CO concentration limits in Table 1, on and after 12 months following issuance of a permit.
- (3) An owner or operator of a Unit with a Rated Heat Input greater than or equal to 40 MMBtu/hr shall:
 - (A) Submit a permit application to add a permit condition for each Unit to limit NOx and CO concentrations to a level not to exceed the concentration limits in Table 1 on or before July 1, 2023; and
 - (B) Not operate the Unit that exceeds the NOx or CO concentration limit in Table 1, on and after 18 months following issuance of a permit.
- (4) An owner or operator of a Unit that fails to comply with the permit application submission requirements of paragraph (d)(2), (d)(3), or (d)(4) shall submit a permit application and shall:
 - (A) For Units with a Rated Heat Input less than 40 MMBtu/hr, not operate the Unit unless the Unit meets the concentration limits in Table 1 or Table 2 on and after 12 months after the permit is issued, or on and after 30 months following the permit application submittal date in the implementation schedule of paragraph (e)(1) or (e)(2), whichever is sooner; or
 - (B) For Units with a rated heat input greater than or equal to 40 MMBtu/hr, not operate the Unit unless the Unit meets the concentration limits in Table 1 on and after 18 months after the permit is issued or on and after

36 months following the permit application submittal date in (e)(3), whichever is sooner.

- (5) An owner or operator of a Unit that demonstrates compliance with the concentration limit requirements of paragraph (d)(2), (d)(3), or (d)(4) pursuant to subdivision (h) without any Alteration to the Unit and without a permit condition requiring compliance with the NO_x and CO concentration limits specified in Table 1 or Table 2 shall submit a permit application to modify the Permit to Operate for the Unit pursuant to the implementation schedule in paragraph (e)(1), (e)(2), or (e)(3).
- (6) An owner or operator that elects to Decommission a Unit, in lieu of meeting the permit application submission and concentration limit requirements of paragraph (d)(2), (d)(3), or (d)(4) pursuant to subdivision (h) shall Decommission the Unit no later than 30 months following the permit application submittal date pursuant to the implementation schedule in paragraph (e)(1), (e)(2), or (e)(3) by disconnecting all fuel, air, and electricity to the Unit and inactivating the Unit's applicable South Coast AQMD permit.
- (7) **Implementation Schedule for Facilities with Two or More Units**
An owner or operator of a facility with two or more Units subject to paragraphs (d)(2), (d)(3), or (d)(4) with a July 1, 2023 permit application submittal date pursuant to the implementation schedule in paragraph (e)(1) or (e)(2), may elect to comply with the multiple unit implementation schedule pursuant to Table 4, in lieu of the implementation schedule in paragraph (e)(1) or (e)(2), provided:
 - (A) The owner or operator submits permit applications by the permit application submittal dates specified in Table 4 to comply with the concentration limits in Table 1; where
 - (i) The total Rated Heat Input means the sum of all of the units' rated heat input that are subject to the multiple unit implementation schedule in Table 4; and
 - (ii) The minimum percentages listed in Table 4 require that the number of Units is rounded up to the nearest whole number of Units.
 - (B) Each Unit demonstrates compliance, pursuant to subdivision (h), with the concentration limits in Table 1 no later than 12 months following the issuance of a permit; and

Rule 1147.2 (Cont.)

(Adopted [Date of Adoption])

(C) The owner or operator that elects to meet the permit application submission requirements of subparagraph (e)(7)(A) by Decommissioning a Unit shall Decommission the Unit within 30 months of the permit application submission of clause (e)(7)(C)(i) by disconnecting all fuel, air, and electricity to the Unit and inactivating the Unit’s applicable South Coast AQMD permit.

Table 4 – Multiple Unit Implementation Schedule to Meet Concentration Limits in Table 1

Permit Application or Inactivation of Permit Submittal Date	2 – 9 Units (Minimum % of total Rated Heat Input)	10 – 19 Units (Minimum % of total Rated Heat Input)	20 or More Units (Minimum % of total Rated Heat Input)
January 1, 2023	50%	-	-
January 1, 2024	100%	50%	33%
January 1, 2025	Not Applicable	-	-
January 1, 2026		100%	67%
January 1, 2027		Not Applicable	-
January 1, 2028			100%

- (f) Determination of Burner Age
 - (1) Burner age for Units with a Rated Heat Input of less than 40 MMBtu/hr and equipped with burners of varying ages shall be based on the oldest burner age.
 - (2) Burner age shall be based on the original date of installation determined by:
 - (A) Invoice from burner manufacturer for purchase of burner equipment;
 - (B) Information submitted to the South Coast AQMD with applications for permit prior to [Date of Adoption] for the specific burner;
 - (C) Original Unit manufacturer's identification or rating plate permanently affixed to the Unit; or

Rule 1147.2 (Cont.)

(Adopted [Date of Adoption])

- (D) Any other method of determining burner age that can be substantiated through sufficient written information as approved by the Executive Officer.
- (3) The burner shall be deemed to be 32 years old as of January 1, 2023 for any Unit where the burner age cannot be determined pursuant to paragraph (f)(2).
- (g) Demonstration of Less than One Pound NOx per Day
 - (1) Effective upon [six months after *Date of Adoption*], an owner or operator demonstrating compliance with NOx emissions of less than one pound per day shall:
 - (A) Install and maintain in service a non-resettable totalizing time meter on the Unit and operate the Unit no more than the specified time per day in Table 5 or as calculated using Equation 1;

Daily Operating Minutes =

$$60 \text{ minutes/hour} \div [R \times (EF \div HHV)] \quad \text{(Equation 1)}$$

Where,

R = Rated Heat Input (MMBtu/hr),

EF = Emission Factor for the Unit (lbs NOx/MMScf or lbs NOx/gal),

HHV = Higher Heating Value of Fuel Source (MMBtu/MMScf or MMBtu/gal)

Table 5 – Less than One Pound per Day Daily Operating Limits

Unit Rated Heat Input (Btu/hr)	Daily Operating Limit (minutes)
< 1,000,000	480
≥ 1,000,000 to < 1,500,000	300
≥ 1,500,000 to ≤ 2,000,000	240

; or

- (B) Install and maintain in service a non-resettable totalizing fuel meter on the Unit and consume no more than the Therms of fuel per day calculated using Equation 2.

$$\text{Daily Therms of Fuel} = (1 \div EF) \times HHV \times 10 \quad (\text{Equation 2})$$

Where,

EF = Emission Factor for the Unit (lbs NO_x/MMScf natural gas)

HHV = Higher Heating Value of Natural Gas (1,050 MMBtu/MMScf)

10 = Conversion from MMBtu to Therms

(h) **Monitoring and Source Testing Requirements**

- (1) An owner or operator of a Unit subject to the concentration limit requirements in paragraph (d)(1), (d)(2), (d)(3), or (d)(4) shall:
 - (A) For Units with a Rated Heat Input of less than 10 MMBtu/hr, conduct a source test no later than 60 calendar months from the previous source test; or
 - (B) For Units with a Rated Heat Input greater than or equal to 10 MMBtu/hr, conduct a source test no later than:
 - (i) 60 calendar months from the previous source test for Units with an annual heat input of less than or equal to 23 billion Btu per year; or
 - (ii) 36 calendar months from the previous source test for Units with an annual heat input of greater than 23 billion Btu per year in any year.
- (2) An owner or operator of a Unit shall conduct an initial source test:
 - (A) For Existing Units,
 - (i) No later than 24 months after [Date of Adoption] and establish the date of this source test as the basis for subsequent source testing frequency; or
 - (ii) Use the results of a South Coast AQMD-approved source test conducted between the applicable frequency required in subparagraph (h)(1)(A) or (h)(1)(B) and [Date of Adoption] and establish the date of this source test as the basis for subsequent source testing frequency.
 - (B) For New Units, no later than 18 months after the Permit to Construct is issued and establish the date of this source test as the basis for subsequent

source testing frequency unless an extension of time has been approved in writing by the Executive Officer.

- (3) An owner or operator of a Unit shall submit a source test protocol to the Executive Officer for approval no later than 90 days prior to the scheduled source test and conduct the source test within the 90-day period, or within 30 days following the source test protocol approval, whichever is later.
- (4) An owner or operator of a Unit that has a previously approved protocol pursuant to the protocol submission requirements of paragraph (h)(3) may submit the previously approved protocol if the burner and Unit have not been Altered, unless the Executive Officer determines that the previously approved protocol is no longer applicable or requires modification and a new source test protocol is required to be submitted.
- (5) Compliance demonstrations shall be made in the normal firing range of the Rated Heat Input of a Unit.
- (6) Any source test conducted to demonstrate compliance shall use a South Coast AQMD-approved contractor under the Laboratory Approval Program according to the following procedures:
 - (A) South Coast AQMD Source Test Method 100.1 – Instrumental Analyzer Procedures for Continuous Gaseous Emission Sampling (March 1989);
 - (B) South Coast AQMD Source Test Method 7.1 – Determination of Nitrogen Oxide Emissions from Stationary Sources (March 1989) and South Coast AQMD Source Test Method 10.1 - Carbon Monoxide and Carbon Dioxide by Gas Chromatograph/Non-Dispersive Infrared Detector (GC/NDIR) - Oxygen by Gas Chromatograph-Thermal Conductivity (GC/TCD) (March 1989);
 - (C) EPA Test Method 19 – Sulfur Dioxide Removal and Particulate, Sulfur Dioxide and Nitrogen Oxides from Electric Utility Steam Generators (August 2017); or
 - (D) Any alternative test method submitted in writing to, and pre-approved by, the Executive Officer of the South Coast AQMD, the California Air Resources Board, and the United States Environmental Protection Agency.

Rule 1147.2 (Cont.)

(Adopted [Date of Adoption])

- (7) Source test reports, including a description of the equipment tested, shall be submitted to the Executive Officer within 60 days of completion of the source test.
- (8) An owner or operator of a Unit conducting a source test shall:
 - (A) Not perform any Unit tuning, including modifying the air-to-fuel ratio and excess air content, subsequent to the beginning of a source test, except to maintain the burner settings set during the Unit tuning;
 - (B) Conduct the source within the calendar month that the source test is due pursuant to the source testing frequency requirements in paragraph (h)(1); and
 - (C) For a Unit that is not in operation on the date the source test is required, conduct the source test by the end of seven consecutive days, or 15 cumulative days, of resumed operation.
- (9) An owner or operator of a Unit with a Rated Heat Input greater than or equal to 40 MMBtu/hr shall:
 - (A) For Units located at a Non-RECLAIM Facility or Former RECLAIM Facility, install, certify, operate, and maintain a CEMS to measure NO_x and oxygen within 12 months of [Date of Adoption] pursuant to the applicable South Coast AQMD Rules 218.2 and 218.3 requirements to demonstrate compliance with the concentration limits in Table 1 at the corresponding oxygen correction and averaging times;
 - (B) For Units located at a RECLAIM Facility install, certify, operate, and maintain a CEMS to measure NO_x and oxygen within 12 months of [Date of Adoption] pursuant to South Coast AQMD Rule 2012 to demonstrate compliance with the ammonia permit limit of the Unit at the corresponding oxygen correction and averaging times.
 - (C) An owner or operator of a Unit equipped with a certified CEMS to measure NO_x emissions shall not require NO_x source testing requirements;
 - (D) An owner or operator of a Unit equipped with a certified CEMS to measure CO emissions shall not require CO source testing requirements; and
 - (E) Conduct an annual relative accuracy test audit (RATA) required by any applicable South Coast AQMD rule or certification procedure for CEMS

certification, operation, monitoring, reporting, and notification; 40 CFR Part 75 Subpart E; or 40 CFR Part 60 Appendix B Specification 2, for those pollutants monitored by a CEMS.

- (10) An owner or operator of a Unit with an exhaust emission control system that utilizes an ammonia-based chemical reagent to control NO_x shall:
- (A) Demonstrate compliance quarterly with any ammonia limit established in the permit of the Unit, according to the procedures in South Coast AQMD Source Test Method 207.1 – Determination of Ammonia Emissions from Stationary Sources, as specified by a permit condition or beginning within 12 months of a new Permit to Operate being issued, whichever is sooner;
 - (B) Demonstrate compliance annually with any ammonia limit established in the permit of the Unit, if the Unit has demonstrated compliance with the quarterly source test requirements of subparagraph (h)(10)(A) for four consecutive quarterly source tests;
 - (C) Return to the original schedule to conduct source tests quarterly pursuant to subparagraph (h)(10)(A) if a Unit fails to demonstrate compliance with the annual source test requirements of subparagraph (h)(10)(B);
 - (D) In lieu of complying with subparagraphs (h)(10)(A) through (h)(10)(C), Units located at a Non-RECLAIM Facility or Former RECLAIM Facility shall install, certify, operate, and maintain a CEMS to measure ammonia and oxygen pursuant to any applicable South Coast AQMD rule or certification procedure for CEMS certification, operation, monitoring, reporting, and notification to demonstrate compliance with the ammonia permit limit of the Unit at the corresponding oxygen correction and averaging times;
 - (E) For Units that are equipped with a CEMS to measure ammonia and oxygen that is not certified pursuant to any applicable South Coast AQMD rule or certification procedure for CEMS certification, operation, monitoring, reporting, and notification, conduct periodic ammonia source testing pursuant to paragraphs (h)(10)(A) or (h)(10)(B) until the ammonia CEMS is certified; and

Rule 1147.2 (Cont.)

(Adopted [Date of Adoption])

- (F) For Units that are subject to paragraphs (h)(10)(A) or (h)(10)(B), and that do not utilize a certified NO_x CEMS and CO CEMS shall conduct source testing for NO_x and CO concurrently with source testing for ammonia.
 - (11) Compliance determinations approved by the Executive Officer shall be used to establish the basis for subsequent source testing frequency, including any compliance determinations required as part of a permit.
 - (12) Compliance determinations shall be conducted, at a minimum, over a continuous 15-minute block of time, unless otherwise approved in writing by the Executive Officer.
 - (13) An owner or operator of a Unit that is subject to more than one NO_x concentration limit due to varying operating temperatures may comply with the higher NO_x concentration limit.
 - (14) An owner or operator of multiple Units operating in-series with a common exhaust shall comply with the lowest NO_x concentration limit of any individual unit.
- (i) Labeling Requirements
- (1) An owner or operator of a Unit shall display the model number and Rated Heat Input of the Unit burner on a permanent rating plate.
 - (2) The owner or operator of a Unit that is Altered shall:
 - (A) Display the new Rated Heat Input on a new permanent supplemental rating plate installed in an accessible location on the Unit or burner; and
 - (B) Determine the date of Unit Alteration pursuant to the burner age determination requirements of subdivision (f).
- (j) Reporting and Recordkeeping Requirements
- (1) An owner or operator shall maintain on-site, for at least 5 years and make available to the Executive Officer upon request, and if applicable, source test reports and daily records demonstrating compliance with the one pound NO_x per day demonstration requirements of subdivision (g).
 - (2) An owner or operator shall maintain operating records to demonstrate that a Unit complies with the requirements of subparagraph (h)(8)(C).

Rule 1147.2 (Cont.)

(Adopted [Date of Adoption])

- (3) An owner or operator shall maintain records on-site identifying the Rated Heat Input for any Unit subject to this rule and make such records available to the Executive Officer upon request.
 - (4) An owner or operator of a Unit that is Altered and subject to this rule shall maintain records on-site to include the name of the company and person Altering the Unit, a description of all Alterations, the date(s) the Unit was Altered, and a calculation of the Rated Heat Input and make such records available to the Executive Officer upon request.
 - (5) An owner or operator of a Unit equipped with a CEMS shall maintain records on-site in compliance with any applicable South Coast AQMD Rule for CEMS certification, operation, monitoring, reporting, and notification or any applicable permit condition, for at least 5 years and make records available to the Executive Officer upon request.
- (k) Exemptions
- (1) The concentration limits of subdivision (d) shall not apply to Units during periods of Refractory Dry-Out.
 - (2) The provisions of this rule shall not apply to Units during periods of Startup or Shutdown pursuant to South Coast AQMD Rule 429.
 - (3) The provisions of this rule shall not apply to electrically-powered Units.
 - (4) A Unit emitting less than one pound NO_x per day pursuant to subdivision (g) shall:
 - (A) Be subject to labeling requirements pursuant to subdivision (i);
 - (B) Be subject to recordkeeping requirements pursuant to subdivision (j); and
 - (C) Permanently lose exemption under this paragraph if the unit fails to demonstrate compliance with subdivision (g).