



46-00011

ARCELORMITTAL PLATE LLC/CONSHOHOCKEN PLT



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: January 26, 2018

Effective Date: January 26, 2018

Expiration Date: [REDACTED]

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 46-00011

Federal Tax Id - Plant Code: 20-0653500-2

Owner Information

Name: ARCELORMITTAL PLATE LLC
Mailing Address: 900 CONSHOHOCKEN RD
PO BOX 842
CONSHOHOCKEN, PA 19428-1038

Plant Information

Plant: ARCELORMITTAL PLATE LLC/CONSHOHOCKEN PLT
Location: 46 Montgomery County 46944 Plymouth Township
SIC Code: 3312 Manufacturing - Blast Furnaces And Steel Mills

Responsible Official

Name: EDWARD C FREY
Title: GENERAL MGR
Phone (610) 383 - 2301

Permit Contact Person

Name: IAN MAIR
Title: ENVIRONMENTAL MGR
Phone: (610) 832 - 7190

[Signature]

JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER

Pages 2-27, 34, 35, 39-48, 52-59, 63-68, and 71-72 are
fully redacted

**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: DREVER FURNACE

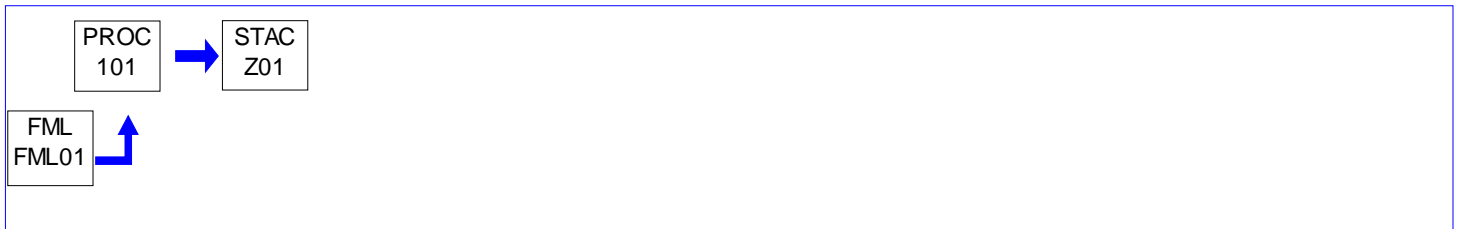
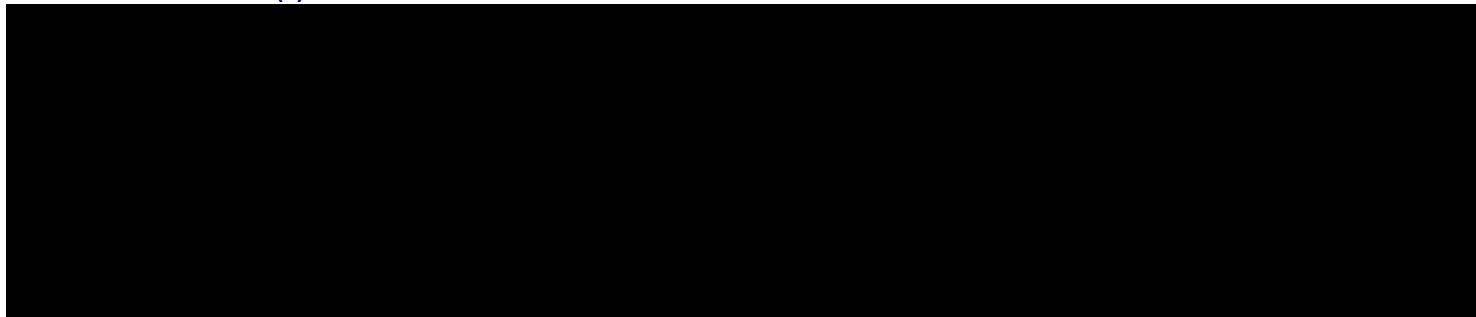
Source Capacity/Throughput:

20.000 Tons/HR

STEEL PLATE

56.000 MCF/HR

Natural Gas

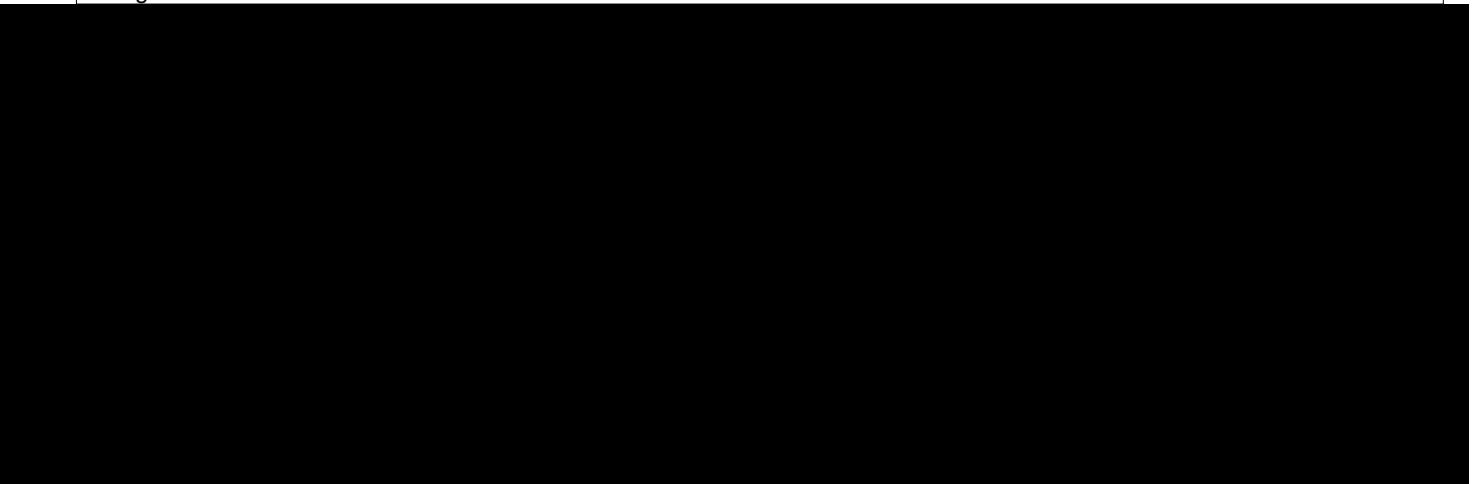
**I. RESTRICTIONS.****Emission Restriction(s).**

003

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall limit the NOx emissions from this Source ID to less than 34.34 tons per year calculated on a 12-month rolling sum.

**Throughput Restriction(s).**

006

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall limit the fuel used by the Drever Furnace (Source ID 101) to less than 490,571 MCF/YR of natural gas, annually, calculated on a 12-month rolling sum.

SECTION D. Source Level Requirements**IV. RECORDKEEPING REQUIREMENTS.**

010

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall keep records of the amount of fuel used by the Drever Furnace (Source ID: 101) on a monthly basis.

011

Operating permit terms and conditions.

[Additional Authority for this permit condition was derived from 25 Pa. Code § 127.512 and 25 Pa. Code § 129.99]

The permittee shall keep records of the NO_x emissions from this source ID monthly and on a 12-month rolling sum.

VI. WORK PRACTICE REQUIREMENTS.

013

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall calculate the nitrogen oxide (NO_x) emissions by multiplying the annual usage of natural gas by the emission factor of 0.140 lb NO_x/MCF of fuel used.

SECTION D. Source Level Requirements

014

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code § 127.512 and 25 Pa. Code § 129.99]

- (a) The permittee shall ensure that the Drever Furnace (Source ID: 101) shall be maintained and operated in accordance with manufacturer's specifications and in accordance with good air pollution control practices.
- (b) In instances where the manufacturer's specification information is no longer available or applicable, the permittee shall ensure that the source shall be maintained and operated in a manner consistent with safety and good air pollution control practices for minimizing emissions.

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: QUENCH FURNACE

Source Capacity/Throughput:

20.000 Tons/HR

STEEL PLATE

88.600 MCF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

004

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall limit the NO_x emissions from this source ID to less than 50.55 tons per year calculated on a 12-month rolling sum.

[Compliance with this condition assures compliance with RACT I condition number 8]

SECTION D. Source Level Requirements**Throughput Restriction(s).**

007

Operating permit terms and conditions.

The permittee shall limit the fuel used by the Quench Furnace (Source ID: 102) to 722,143 MCF of natural gas, annually, calculated on a 12-month rolling sum.

[Compliance with this condition assures compliance with RACT I condition number 9]

IV. RECORDKEEPING REQUIREMENTS.

SECTION D. Source Level Requirements

013 [REDACTED]

Operating permit terms and conditions.

The permittee shall keep records of the amount of fuel used by the Quench Furnace (Source ID: 102) on a monthly basis.

015 [REDACTED]

Operating permit terms and conditions.

[Additional Authority for this permit condition was derived from 25 Pa. Code § 127.512 and 25 Pa. Code § 129.99]

The permittee shall keep records of the NO_x emissions from this source ID monthly and on a 12-month rolling sum.

VI. WORK PRACTICE REQUIREMENTS.

017 [REDACTED]

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall calculate the nitrogen oxide (NO_x) emissions by multiplying the annual usage of natural gas by the emission factor of 0.140 lb NO_x/MCF of fuel used.

018 [REDACTED]

Operating permit terms and conditions.

[Additional Authority for this permit condition was derived from 25 Pa. Code § 127.512 and 25 Pa. Code § 129.99]

(a) The permittee shall ensure that the Quench Furnace (Source ID: 102) shall be maintained and operated in accordance with manufacturer's specifications and in accordance with good air pollution control practices.

(b) In instances where the manufacturer's specification information is no longer available or applicable, the permittee shall ensure that the source shall be maintained and operated in a manner consistent with safety and good air pollution control practices for minimizing emissions.

SECTION D. Source Level Requirements

Source ID: 106

Source Name: ROSE ANNEALING FURNACE

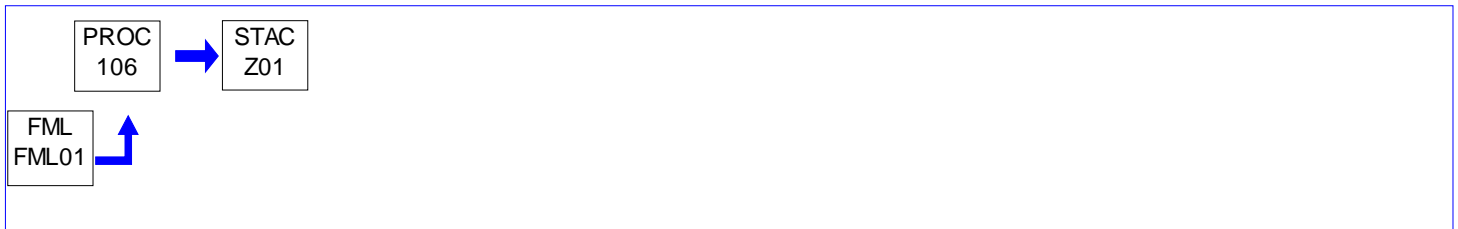
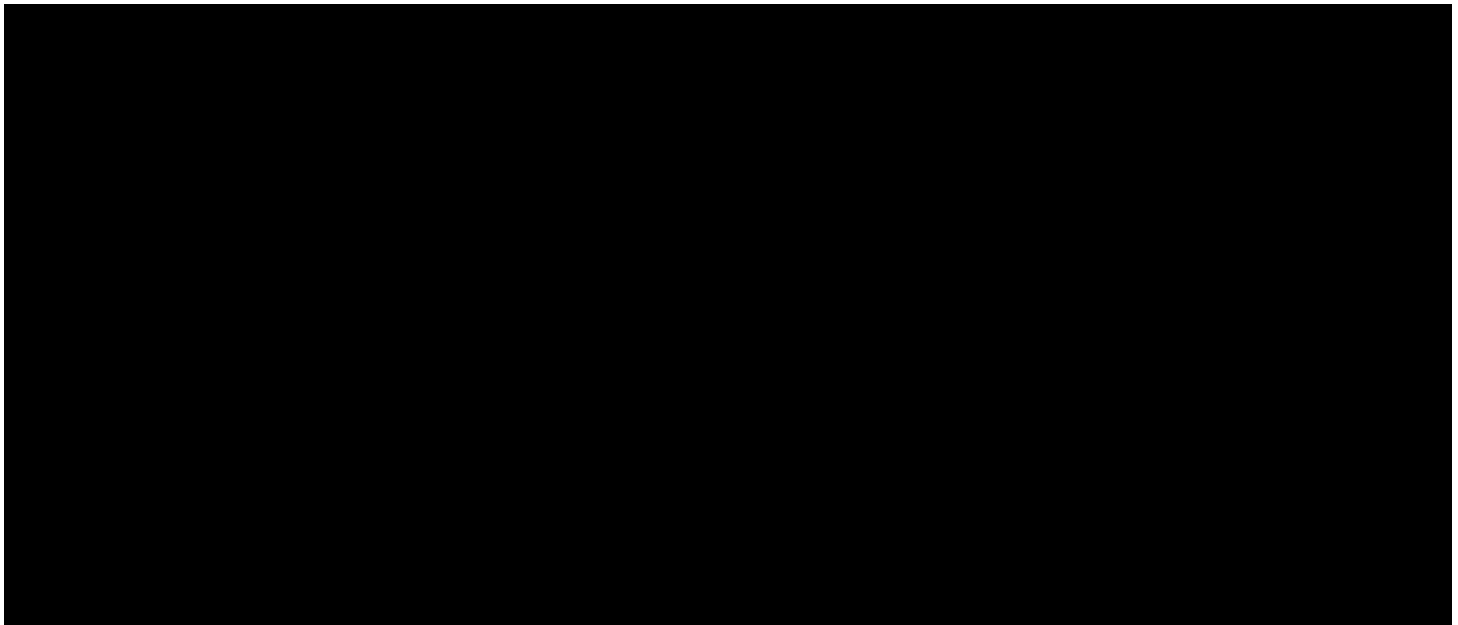
Source Capacity/Throughput:

20.000 Tons/HR

STEEL PLATE

64.500 MCF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

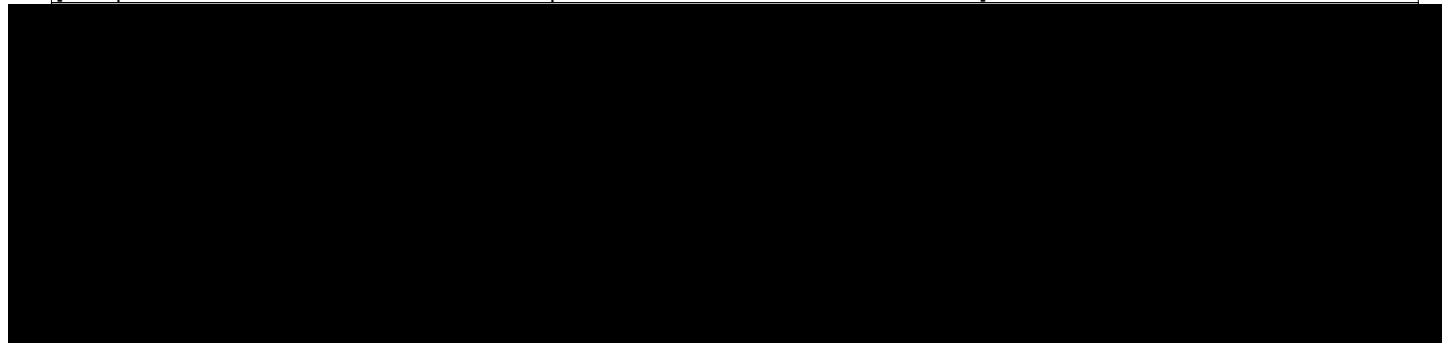
004

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall limit the NO_x emissions from this Source ID to less than 36.84 tons per year calculated on a 12-month rolling sum.

[Compliance with this condition assures compliance with RACT I condition number 8]



**SECTION D. Source Level Requirements****Throughput Restriction(s).**

007

Operating permit terms and conditions.

The permittee shall limit the maximum quantity of fuel used in the Rose Annealing Furnace (Source ID: 106) to 526,286 MCF of natural gas annually, calculated on a 12-month rolling sum.

[Compliance with this condition assures compliance with RACT I condition number 9]

IV. RECORDKEEPING REQUIREMENTS.

SECTION D. Source Level Requirements

013 [REDACTED]

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall keep records of the amount of fuel used by the Rose Annealing Furnace (Source ID: 106) on a monthly basis.

015 [REDACTED]

Operating permit terms and conditions.

[Additional Authority for this permit condition was derived from 25 Pa. Code § 127.512 and 25 Pa. Code § 129.99]

The permittee shall keep records of the NO_x emissions from this source ID monthly and on a 12-month rolling sum.

VI. WORK PRACTICE REQUIREMENTS.

017 [REDACTED]

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall calculate the nitrogen oxide (NO_x) emissions by multiplying the annual usage of natural gas by the emission factor of 0.140 lb NO_x/MCF of fuel used.

018 [REDACTED]

Operating permit terms and conditions.

[Additional Authority for this permit condition was derived from 25 Pa. Code § 127.512 and 25 Pa. Code § 129.99]

(a) The permittee shall ensure that the Rose Annealing Furnance (Source ID: 106) shall be maintained and operated in accordance with manufacturer's specifications as well as in accordance with good air pollution control practices.

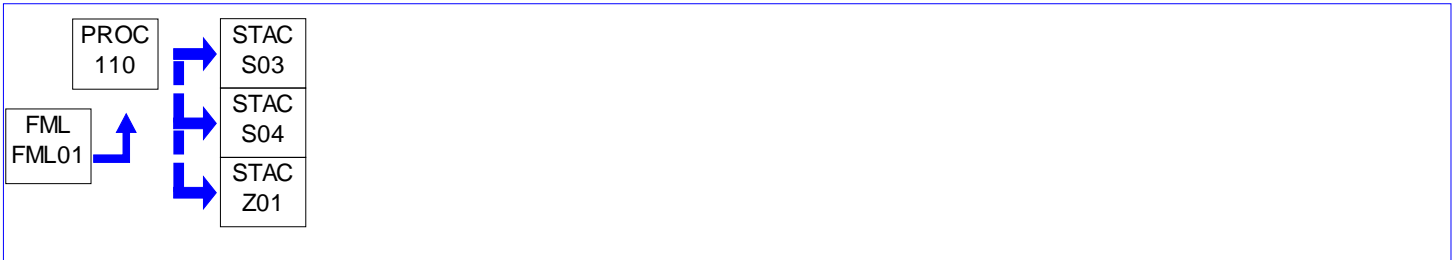
(b) In instances where the manufacturer's specification information is no longer available or applicable, the permittee shall ensure that the source shall be maintained and operated in a manner consistent with safety and good air pollution control practices for minimizing emissions.

SECTION D. Source Level Requirements

Source ID: 110

Source Name: SLAB HEATING FURNACES 1 & 2

Source Capacity/Throughput:	200.000 Tons/HR	STEEL SLABS
	248.000 MCF/HR	Natural Gas



I. RESTRICTIONS.

Emission Restriction(s).

004

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall limit the NO_x emissions from Slab Heating Furnace 1 to less than 85.97 tpy and from Slab Heating Furnace 2 to less than 187.34 tpy calculated on a 12-month rolling sum.

[Compliance with this condition assures compliance with RACT I condition number 8]

**SECTION D. Source Level Requirements****Throughput Restriction(s).**

007

Operating permit terms and conditions.

The permittee shall limit the quantity of fuel burned in these sources as follows:

- (a) Slab Heating Furnace 1: 1,563,901 MCF annually, as a 12-month rolling sum.
- (b) Slab Heating Furnace 2: 1,821,848 MCF annually, as a 12-month rolling sum.

[Compliance with this condition assures compliance with RACT I condition number 9]

IV. RECORDKEEPING REQUIREMENTS.

SECTION D. Source Level Requirements

013

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall keep separate records of the amount of fuel used by Slab Heating Furnaces 1 & 2 (Source ID: 110) on a monthly basis.

014

Operating permit terms and conditions.

[Additional Authority for this permit condition was derived from 25 Pa. Code § 127.512 and 25 Pa. Code § 129.99]

The permittee shall keep records of the NO_x emissions from this source ID monthly and on a 12-month rolling sum.

VI. WORK PRACTICE REQUIREMENTS.

016

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall calculate the nitrogen oxide (NO_x) emissions by multiplying the annual usage of natural gas by the following emission factor for each source:

(a) Slab Heating Furnace 1: 0.11 lb NO_x/MCF for natural gas;

(b) Slab Heating Furnace 2: 0.198 lb NO_x/MCF of natural gas;

[Compliance with this condition assures compliance with RACT I condition number 9]

017

Operating permit terms and conditions.

[Additional Authority for this permit condition was derived from 25 Pa. Code § 127.512 and 25 Pa. Code § 129.99]

(a) The permittee shall ensure that Slab Heating Furnaces 1 & 2 (Source ID: 110) shall be maintained and operated in accordance with manufacturer's specifications and in accordance with good air pollution control practices.

(b) In instances where the manufacturer's specification information is no longer available or applicable, the permittee shall ensure that each source shall be maintained and operated in a manner consistent with safety and good air pollution control practices for minimizing emissions.

**SECTION D. Source Level Requirements**

Source ID: 152

Source Name: TEMPER FURNACE

Source Capacity/Throughput:

20.000 Tons/HR

STEEL PLATE

94.000 MCF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****Processes**

004

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall limit the NO_x emissions from this Source ID to less than 19.78 tpy calculated on a 12-month rolling sum.

[Compliance with this condition assures compliance with RACT I condition number 8]

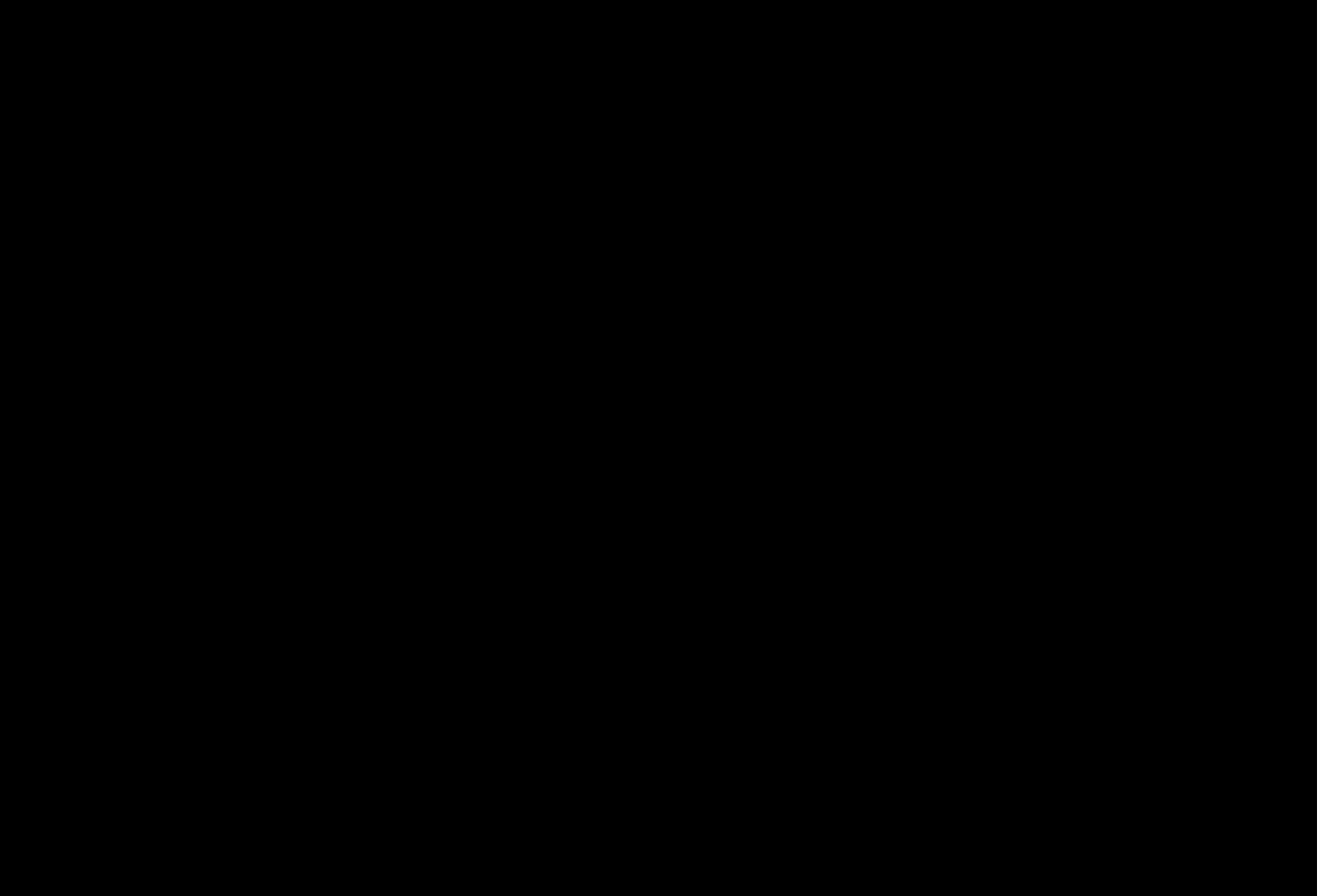
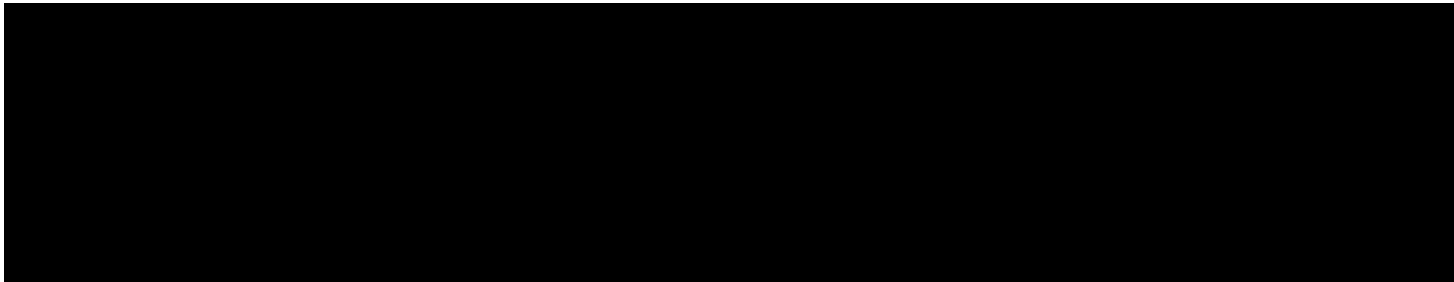
**SECTION D. Source Level Requirements****Throughput Restriction(s).**

007

**Operating permit terms and conditions.**

The permittee shall limit the fuel usage in the Temper Furnace (Source ID: 152) to 282,839 MCF of natural gas per year, as a 12-month rolling sum.

[Compliance with this condition assures compliance with RACT I condition number 9]

**IV. RECORDKEEPING REQUIREMENTS.**

SECTION D. Source Level Requirements

013

Operating permit terms and conditions.

The permittee shall keep records of the amount of fuel used by the Temper Furnace (Source ID: 152) on a monthly basis.

015

Operating permit terms and conditions.

[Additional Authority for this permit condition was derived from 25 Pa. Code § 127.512 and 25 Pa. Code § 129.99]

The permittee shall keep records of the NO_x emissions from this source ID monthly and on a 12-month rolling sum.

VI. WORK PRACTICE REQUIREMENTS.

017

Operating permit terms and conditions.

[Additional Authority for this permit condition is derived from 25 Pa. Code 127.512 and 25 Pa. Code 129.99]

The permittee shall calculate the nitrogen oxide (NO_x) emissions by multiplying the annual usage of natural gas and/or propane by the emission factor of 0.100 lb NO_x/MCF of fuel used.

018

Operating permit terms and conditions.

[Additional Authority for this permit condition was derived from 25 Pa. Code § 127.512 and 25 Pa. Code § 129.99]

(a) The permittee shall ensure that the Temper Furnance (Source ID: 152) shall be maintained and operated in accordance with manufacturer's specifications and in accordance with good air pollution control practices.

(b) In instances where the manufacturer's specification information is no longer available or applicable, the permittee shall ensure that the source shall be maintained and operated in a manner consistent with safety and good air pollution control practices for minimizing emissions.

**SECTION F. Emission Restriction Summary.**

Source Id	Source Description
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101	DREVER FURNACE
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Emission Limit	Pollutant
34.340 Tons/Yr calculated on a 12-month rolling sum	NOX

102	QUENCH FURNACE
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Emission Limit	Pollutant
50.550 Tons/Yr calculated on 12-month rolling sum	NOX

106	ROSE ANNEALING FURNACE
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Emission Limit	Pollutant
36.840 Tons/Yr calculated on a 12-month rolling sum	NOX

110	SLAB HEATING FURNACES 1 & 2
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Emission Limit	Pollutant
85.970 Tons/Yr Slab Heating Furnace 1 calculated on 12 month rolling sum	NOX

**SECTION F. Emission Restriction Summary.**

152 TEMPER FURNACE

Emission Limit		Pollutant	
19.780	Tons/Yr	calculated on 12 month rolling sum	NOX

**SECTION G. Miscellaneous.**

- This operating permit has been renewed and also addresses RACT II applicability and references in accordance with 25 Pa. Code 129.96-129.100