**Facility Name:** US Steel (Clairton Coke)
**Facility Identifier:**
**Facility Reporting Year:** 2015
**Facility Location:**
Address: 400 STATE ST
City: CLAIRTON
State: PA
Postal Code: 15025

**Facility Site Details:**
**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 657086.3
**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):**
**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0
**Cogeneration Unit Emissions Indicator:** N
**GHG Report Start Date:** 2015-01-01
**GHG Report End Date:** 2015-12-31
**Description of Changes to Calculation Methodology:**
**Part 75 Biogenic Emissions Indication:**
**Plant Code Indicator:** N
**Primary NAICS Code:** 324199
**Second Primary NAICS Code:**

**Parent Company Details:**
**Parent Company Name:** US STEEL CORP
**Address:** 600 Grant Street, Pittsburgh, PA 15219-2800
**Percent Ownership Interest:** 100

# Subpart C: General Stationary Fuel Combustion

**Gas Information Details**

| Gas Name | Other Gas Name | Gas Quantity | Own Result? |
|---|---|---|---|
| Biogenic Carbon dioxide | | 0 (Metric Tons) | |
| Methane | | 11.25 (Metric Tons) | |
| Nitrous Oxide | | 2.234 (Metric Tons) | |
| Carbon Dioxide | | 619893.8 (Metric Tons) | |

**Unit Details:**
**Unit Name :** CP-CP-COG3
**Unit Type :** OCS (Other combustion source)
**Unit Description :**
**Other Unit Name :**
**Common Pipe Details:**
**Use Ivt Indicator:** Y
**Maximum Rated Heat Input Capacity:** 229

**Emission Details:**
**Annual Biogenic CO2 Emissions:** 0 (metric tons)
**Annual Fossil fuel based CO2 Emissions:** 7511.6 (metric tons)

**Tier Fuel Details:**
**Fuel** : Coke Oven Gas
**Tier Name** : Tier 3 (Equation C-5, gaseous fuel)
**Tier Methodology Start Date** : 2015-01-01
**Tier Methodology End Date** : 2015-12-31

**Fuel Emission Details** :

| Total CO2 emissions | Total CH4 emissions | Total N2O emissions | Total CH4 emissions CO2e | Total N2O emissions CO2e |
|---|---|---|---|---|
| 7511.6 (Metric Tons) | 0.14 (Metric Tons) | 0.029 (Metric Tons) | 3.4 (Metric Tons) | 8.6 (Metric Tons) |

**Carbon Content Substitute Data Information** :
**Total number of valid carbon content determinations** : 12
**Total number of carbon content substitute data values** : 0
**Frequency of carbon content determinations** : Monthly
**Total number of operating hours in the reporting year for which missing data substitution was used for fuel usage** : 0

**Molecular Weight Information** :
**Total number of valid molecular weight determinations** : 12
**Total number of molecular weight substitute data values** : 0
**Frequency of molecular weight determinations** : Monthly
**Molar Volume Constant (MVC) used** : 849.5 (scf/kg-mole)

**Unit Name :** CP-CP-COG2
**Unit Type :** OCS (Other combustion source)
**Unit Description :**
**Other Unit Name :**
**Common Pipe Details:**
**Use Ivt Indicator:** Y
**Maximum Rated Heat Input Capacity:** 156

**Emission Details:**
**Annual Biogenic CO2 Emissions:** 0 (metric tons)
**Annual Fossil fuel based CO2 Emissions:** 18260.5 (metric tons)

**Tier Fuel Details:**
**Fuel** : Coke Oven Gas
**Tier Name** : Tier 3 (Equation C-5, gaseous fuel)
**Tier Methodology Start Date** : 2015-01-01
**Tier Methodology End Date** : 2015-12-31

**Fuel Emission Details** :

| Total CO2 emissions | Total CH4 emissions | Total N2O emissions | Total CH4 emissions CO2e | Total N2O emissions CO2e |
|---|---|---|---|---|
| 18260.5 (Metric Tons) | 0.33 (Metric Tons) | 0.069 (Metric Tons) | 8.3 (Metric Tons) | 20.6 (Metric Tons) |

**Carbon Content Substitute Data Information** :
**Total number of valid carbon content determinations** : 12
**Total number of carbon content substitute data values** : 0
**Frequency of carbon content determinations** : Monthly
**Total number of operating hours in the reporting year for which missing data substitution was used for fuel usage** : 0

**Molecular Weight Information** :
**Total number of valid molecular weight determinations** : 12
**Total number of molecular weight substitute data values** : 0
**Frequency of molecular weight determinations** : Monthly
**Molar Volume Constant (MVC) used** : 849.5 (scf/kg-mole)

**Unit Name :** CP-CP-NG1
**Unit Type :** OCS (Other combustion source)
**Unit Description :**
**Other Unit Name :**
**Common Pipe Details:**
**Use Ivt Indicator:** Y
**Maximum Rated Heat Input Capacity:** 760

**Emission Details:**
**Annual Biogenic CO2 Emissions:** 0 (metric tons)
**Annual Fossil fuel based CO2 Emissions:** 8127.9 (metric tons)

**Tier Fuel Details:**

**Fuel** : Natural Gas (Weighted U.S. Average)
**Tier Name** : Tier 2 (Equation C-2a)
**Tier Methodology Start Date** : 2015-01-01
**Tier Methodology End Date** : 2015-12-31
**Frequency of HHV determinations** : Quarterly

**Tier 2 Monthly HHV Details** :

| January | February | March | April | May | June | July | August | September | October | November | December |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N | N | N | N | N | N | N | N | N | N | N | N |

**Fuel Emission Details** :

| Total CO2 emissions | Total CH4 emissions | Total N2O emissions | Total CH4 emissions CO2e | Total N2O emissions CO2e |
|---|---|---|---|---|
| 8127.9 (Metric Tons) | 0.15 (Metric Tons) | 0.015 (Metric Tons) | 3.8 (Metric Tons) | 4.6 (Metric Tons) |

**Unit Name :** CP-CP-NG2
**Unit Type :** OCS (Other combustion source)
**Unit Description :**
**Other Unit Name :**
**Common Pipe Details:**
**Use Ivt Indicator:** Y
**Maximum Rated Heat Input Capacity:** 760

**Emission Details:**
**Annual Biogenic CO2 Emissions:** 0 (metric tons)
**Annual Fossil fuel based CO2 Emissions:** 46090.0 (metric tons)

**Tier Fuel Details:**
**Fuel** : Natural Gas (Weighted U.S. Average)
**Tier Name** : Tier 2 (Equation C-2a)
**Tier Methodology Start Date** : 2015-01-01
**Tier Methodology End Date** : 2015-12-31
**Frequency of HHV determinations** : Quarterly

**Tier 2 Monthly HHV Details** :

| January | February | March | April | May | June | July | August | September | October | November | December |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N | N | N | N | N | N | N | N | N | N | N | N |

**Fuel Emission Details** :

| Total CO2 emissions | Total CH4 emissions | Total N2O emissions | Total CH4 emissions CO2e | Total N2O emissions CO2e |
|---|---|---|---|---|
| 46090.0 (Metric Tons) | 0.87 (Metric Tons) | 0.087 (Metric Tons) | 21.7 (Metric Tons) | 25.9 (Metric Tons) |

**Unit Name :** CW-B1
**Unit Type :** OB (Boiler, other)
**Unit Description :**
**Individual Unit Details:**
**Use Ivt Indicator:** Y
**Maximum Rated Heat Input Capacity:** 760 (mmBtu/hr)

**Emission Details:**
**Annual $CO_2$ mass emissions from sorbent:** 0 (Metric Tons)
**Annual Biogenic CO2 Emissions:** 0 (metric tons)

**Tier Fuel Details:**
**Fuel** : Coke Oven Gas
**Tier Name** : Tier 3 (Equation C-5, gaseous fuel)
**Tier Methodology Start Date** : 2015-01-01
**Tier Methodology End Date** : 2015-12-31

**Fuel Emission Details** :

| Total CO2 emissions | Total CH4 emissions | Total N2O emissions | Total CH4 emissions CO2e | Total N2O emissions CO2e |
|---|---|---|---|---|
| 107903.1 (Metric Tons) | 1.95 (Metric Tons) | 0.406 (Metric Tons) | 48.7 (Metric Tons) | 121 (Metric Tons) |

**Carbon Content Substitute Data Information** :
**Total number of valid carbon content determinations** : 12
**Total number of carbon content substitute data values** : 0
**Frequency of carbon content determinations** : Monthly
**Total number of operating hours in the reporting year for which missing data substitution was used for fuel usage** : 0

**Molecular Weight Information** :
**Total number of valid molecular weight determinations** : 12
**Total number of molecular weight substitute data values** : 0
**Frequency of molecular weight determinations** : Monthly
**Molar Volume Constant (MVC) used** : 849.5 (scf/kg-mole)

**Unit Name :** CW-B2
**Unit Type :** OB (Boiler, other)
**Unit Description :**
**Individual Unit Details:**
**Use Ivt Indicator:** Y
**Maximum Rated Heat Input Capacity:** 481 (mmBtu/hr)

**Emission Details:**
**Annual $CO_2$ mass emissions from sorbent:** 0 (Metric Tons)
**Annual Biogenic CO2 Emissions:** 0 (metric tons)

**Tier Fuel Details:**
**Fuel** : Coke Oven Gas
**Tier Name** : Tier 3 (Equation C-5, gaseous fuel)
**Tier Methodology Start Date** : 2015-01-01
**Tier Methodology End Date** : 2015-12-31

**Fuel Emission Details** :

| Total CO2 emissions | Total CH4 emissions | Total N2O emissions | Total CH4 emissions CO2e | Total N2O emissions CO2e |
|---|---|---|---|---|
| 85576.1 (Metric Tons) | 1.54 (Metric Tons) | 0.322 (Metric Tons) | 38.6 (Metric Tons) | 95.9 (Metric Tons) |

**Carbon Content Substitute Data Information** :
**Total number of valid carbon content determinations** : 12
**Total number of carbon content substitute data values** : 0
**Frequency of carbon content determinations** : Monthly
**Total number of operating hours in the reporting year for which missing data substitution was used for fuel usage** : 0

**Molecular Weight Information** :
**Total number of valid molecular weight determinations** : 12
**Total number of molecular weight substitute data values** : 0
**Frequency of molecular weight determinations** : Monthly
**Molar Volume Constant (MVC) used** : 849.5 (scf/kg-mole)

**Unit Name :** CP-CP-COG1
**Unit Type :** OCS (Other combustion source)
**Unit Description :**
**Other Unit Name :**
**Common Pipe Details:**
**Use Ivt Indicator:** Y
**Maximum Rated Heat Input Capacity:** 350

**Emission Details:**
**Annual Biogenic CO2 Emissions:** 0 (metric tons)
**Annual Fossil fuel based CO2 Emissions:** 346424.6 (metric tons)

**Tier Fuel Details:**
**Fuel** : Coke Oven Gas
**Tier Name** : Tier 3 (Equation C-5, gaseous fuel)
**Tier Methodology Start Date** : 2015-01-01
**Tier Methodology End Date** : 2015-12-31

**Fuel Emission Details** :

| Total CO2 emissions | Total CH4 emissions | Total N2O emissions | Total CH4 emissions CO2e | Total N2O emissions CO2e |
|---|---|---|---|---|
| 346424.6 (Metric Tons) | 6.27 (Metric Tons) | 1.306 (Metric Tons) | 156.7 (Metric Tons) | 389.2 (Metric Tons) |

**Carbon Content Substitute Data Information** :
**Total number of valid carbon content determinations** : 12
**Total number of carbon content substitute data values** : 0
**Frequency of carbon content determinations** : Monthly
**Total number of operating hours in the reporting year for which missing data substitution was used for fuel usage** : 0

**Molecular Weight Information** :
**Total number of valid molecular weight determinations** : 12
**Total number of molecular weight substitute data values** : 0
**Frequency of molecular weight determinations** : Monthly
**Molar Volume Constant (MVC) used** : 849.5 (scf/kg-mole)

# Subpart Q: Iron and Steel Production

**CEMS Monitoring Location (CML) Details**

**Gas Information Details**

| Gas Name | Other Gas Name | Gas Quantity | Own Result? |
|---|---|---|---|
| Biogenic Carbon dioxide | | 0 (Metric Tons) | |
| Methane | | 0 (Metric Tons) | |
| Nitrous Oxide | | 0 (Metric Tons) | |
| Carbon Dioxide | | 36245.5 (Metric Tons) | |

The values below are total values for units where the $CO_2$ emissions were calculated using the mass balance methodology
Annual mass of fuel consumed: ()
Average carbon content of fuels: ()
Annual mass of non-fuels consumed: ()
Average carbon content of non-fuels: ()
Annual mass of products and byproducts produced: ()
Average carbon content of byproducts: ()

**No Cems Unit Details:**
Unit Name: CW-COKEP
Unit Description:
Unit Type: Coke Pushing Operation
CO2Emissions: 36245.5 (Metric Tons)

Flares