

Facility Profile Report
Facility Name: Middletown Coke Company
ID: 1409011031

- Facility Information

Facility ID: 1409011031
 FacilityName: Middletown Coke Company
 Facility Description: Heat recovery coke plant
 Address1: 3353 Yankee Road
 Address2:
 City: Middletown State: Ohio
 Zip Code: 45042
 County: Butler 2nd Notification County:
 Portable:
 Portable Group Name: Portable Group Type:
 Operating Status: Not Installed
 Permitting Classification: TV PER Due Date: None
 Transitional Status:
 Title V Permit Status: Pending Initial Title V Certification Report Due Date:
 TV Type A:
 Emissions Reporting Category for TV Status: Report Not Required
 2008:
 Anticipated Emissions Reporting TV
 Category for 2009:
 Core Place ID: 277032 Intra State Voucher Flag:
 Federal SCSC ID
 Latitude(deg,min,sec): (39.0, 28.0, 23.5194)
 Longitude(deg,min,sec): (-84.0, 24.0, 37.7994)

- Notes

User Name	Date	Note
Ploetz, Mike	02/02/2009	The original plans for the Middletown Coke Company called for the coke ovens to be located on the far western end of the site and the address was given as 7014 Hamilton Middletown Road. A revised permit application was submitted with the coke ovens located at the far eastern end of the same site and the address of the facility was changed to 3353 Yankee Road. The address change notification was made in a letter to HCD OES received February 2, 2009.

- PER Due Dates

Due Date	Effective Date
None	12/31/1969

- Yearly Emissions Reporting Category

Year	Category	Enabled	Status	Comment
2008	TV	X	Report Not Required	Per Brad Miller, Middletown Coke (1409011031) has begun some construction but now stopped. It will be 9-12 months at a minimum from the time they re-start construction before the plant could be in operation. et

- **SIC Codes**

3312 Blast Furnaces And Steel Mills

- **NAICS Codes**

324199 All Other Petroleum and Coal Products Manufacturing

- **Contacts**

Contact Type	Contact Person	Phone Number	Email	Start Date	End Date
Billing	Pack, Delauna	(865)288-5200		12/15/2008	
Primary	Pack, Delauna	(865)288-5200		12/15/2008	
Responsible Official	Thomson, Michael	(865)288-5200		12/15/2008	
Owner	SunCoke Energy	(865)288-5200		12/15/2008	

Contact Detail For : Pack, Delauna

Prefix: First Name: Delauna
 Middle Name: Last Name: Pack
 Suffix:
 Company Title: Operating Company Name:
 Address 1: 11400 Parkside Drive
 Address 2:
 City: Knoxville Zip Code: 37934
 State: Tennessee
 Work Phone No: (865)288-5200 Secondary Phone No.:
 Address 2: Secondary Ext. No.:
 Mobile Phone No.: Pager No.:
 Fax No: Pager PIN No.:
 Email:
 Email Pager Address:

Contact Detail For : Thomson, Michael

Prefix: Mr. First Name: Michael
 Middle Name: Last Name: Thomson
 Suffix:
 Company Title: President Operating Company Name:
 Address 1: 11400 Parkside Drive
 Address 2:
 City: Knoxville Zip Code: 37934
 State: Tennessee
 Work Phone No: (865)288-5200 Secondary Phone No.:
 Address 2: Secondary Ext. No.:
 Mobile Phone No.: Pager No.:
 Fax No: Pager PIN No.:
 Email:
 Email Pager Address:

Contact Detail For : SunCoke Energy

Prefix: First Name:

Middle Name: Last Name:
 Suffix:
 Company Title: Operating Company Name: SunCoke Energy
 Address 1: 11400 Parkside Dr.
 Address 2:
 City: Knoxville Zip Code: 37934
 State: Tennessee
 Work Phone No: (865) 288-5200 Secondary Phone No.:
 Address 2: Secondary Ext. No.:
 Mobile Phone No.: Pager No.:
 Fax No: Pager PIN No.:
 Email:
 Email Pager Address:

- **Federal Rules Applicability**

Subject to MACT: Subject to PSD:
 Subject to NESHAPS: Subject to non-attainment NSR:
 Subject to NSPS: Subject to 112(r):
 Subject to Title IV:

- **Allowable Emissions (Facility level)**

Pollutant	Pounds/Hour rate	Tons/Year rate
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- **Attachments**

Description	Type	Modified By	Modified Date
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Emission Unit : F001

Jul 27 2009, 12:11:05

- Emission Unit Information

DAPC Emissions Unit ID: F001

DAPC Description: Paved Roadways and Parking Areas

Company Equipment ID: Paved Roads

Company Description: Paved Roadways and Parking Areas

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Permit Status: None

Title V EU Classification: Not Applicable

PTI Status: None

Exemption Status: NA

Boiler/Turbine/Generator Design Not Applicable
Capacity:

Design Capacity Units:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

Pollutant	Pounds/Hour rate	Tons/Year rate	Comments
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- Processes

- Emission Process Information

Process ID: Paved Roads

Company Process Description: Parking, Heavy Trucks, Maint. Vehicles

Source Classification Code (SCC): 3-03-999-99

Emission Unit : F002

Jul 27 2009, 12:11:05

- Emission Unit Information

DAPC Emissions Unit ID: F002

DAPC Description: Coal and Coke Storage Piles

Company Equipment ID: Storage Piles

Company Description: Coal and Coke Storage Piles

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Permit Status: None

Title V EU Classification: Not Applicable

PTI Status: None

Exemption Status: NA

Boiler/Turbine/Generator Design Not Applicable
Capacity:

Design Capacity Units:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

Pollutant	Pounds/Hour rate	Tons/Year rate	Comments
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- Processes

- Emission Process Information

Process ID: Storage Piles

Company Process Description: Coal & Coke Storage Piles

Source Classification Code (SCC): 3-03-999-99

Emission Unit : F003

Jul 27 2009, 12:11:05

- Emission Unit Information

DAPC Emissions Unit ID: F003

DAPC Description: Coal Handling, Processing and Transfer

Company Equipment ID: Coal Handling

Company Description: Coal Handling, Processing and Transfer

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Permit Status: None

Title V EU Classification: Not Applicable

PTI Status: None

Exemption Status: NA

Boiler/Turbine/Generator Design Not Applicable
Capacity:

Design Capacity Units:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

Pollutant	Pounds/Hour rate	Tons/Year rate	Comments
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- Processes

- Emission Process Information

Process ID: Coal Conveying

Company Process Description: Coal Conveying

Source Classification Code (SCC): 3-03-999-99

Emission Unit : F004

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- Emission Unit Information

DAPC Emissions Unit ID: F004

DAPC Description: Coke and breeze handling and processing

Company Equipment ID: Coke Handling

Company Description: Coke and breeze handling and processing

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Permit Status: None

Title V EU Classification: Not Applicable

PTI Status: None

Exemption Status: NA

Boiler/Turbine/Generator Design Not Applicable
Capacity:

Design Capacity Units:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

Pollutant	Pounds/Hour rate	Tons/Year rate	Comments
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- Processes

- Emission Process Information

Process ID: Coke Conveying

Company Process Description: Coke Conveying

Source Classification Code (SCC): 3-03-999-99

Emission Unit : P001

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- Emission Unit Information

DAPC Emissions Unit ID: P001

DAPC Description: Quench Tower

Company Equipment ID: Quench Tower

Company Description: Quench Tower

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Permit Status: None

Title V EU Classification: Not Applicable

PTI Status: None

Exemption Status: NA

Boiler/Turbine/Generator Design Not Applicable
Capacity:

Design Capacity Units:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

Pollutant	Pounds/Hour rate	Tons/Year rate	Comments
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- Processes

- Emission Process Information

Process ID: Quenching

Company Process Description: Coke Quenching

Source Classification Code (SCC): 3-03-999-99

Emission Unit : P002

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- Emission Unit Information

DAPC Emissions Unit ID: P002

DAPC Description: FGD (Flue Gas Desulfurization) Dust Silos

Company Equipment ID: FGD Dust Silos

Company Description: FGD (Flue Gas Desulfurization) Dust Silos

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Permit Status:

Title V EU Classification: Not Applicable

PTI Status:

Exemption Status: De minimis

Boiler/Turbine/Generator Design Not Applicable
Capacity:

Design Capacity Units:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

Pollutant	Pounds/Hour rate	Tons/Year rate	Comments
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- Processes

Emission Unit : P003

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- Emission Unit Information

DAPC Emissions Unit ID: P003

DAPC Description: Lime Silos

Company Equipment ID: Lime Silos

Company Description: Lime Silos

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Permit Status:

Title V EU Classification: Not Applicable

PTI Status:

Exemption Status: De minimis

Boiler/Turbine/Generator Design Not Applicable
Capacity:

Design Capacity Units:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

Pollutant	Pounds/Hour rate	Tons/Year rate	Comments
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- Processes

Emission Unit : P004

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- Emission Unit Information

DAPC Emissions Unit ID: P004

DAPC Description: Cooling Tower

Company Equipment ID: Cooling Tower

Company Description: Cooling Tower

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Permit Status:

Title V EU Classification: Not Applicable

PTI Status:

Exemption Status: De minimis

Boiler/Turbine/Generator Design Not Applicable
Capacity:

Design Capacity Units:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

Pollutant	Pounds/Hour rate	Tons/Year rate	Comments
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- Processes

Emission Unit : P901

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- Emission Unit Information

DAPC Emissions Unit ID: P901

DAPC Description: Heat Recovery Coke Battery including Charging, Main Stack, Waste Heat Stack and Pushing emissions

Company Equipment ID: Coke Battery

Company Description: Heat Recovery Coke Battery

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Permit Status: None

Title V EU Classification: Not Applicable

PTI Status: None

Exemption Status: NA

Boiler/Turbine/Generator Design Not Applicable
Capacity:

Design Capacity Units:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

Pollutant	Pounds/Hour rate	Tons/Year rate	Comments
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- Processes

- Emission Process Information

Process ID: Charging

Company Process Description: Heat Recovery Coke Oven Charging

Source Classification Code (SCC): 3-03-003-02

- Emission Process Information

Process ID: Coking

Company Process Description: Heat Recovery Coke Manufacture

Source Classification Code (SCC): 3-03-999-99

- Emission Process Information

Process ID: Pushing

Company Process Description: Heat Recovery Coke Manufacture

Source Classification Code (SCC): 3-03-003-03

Control Equipment : Coking Spray Dryer

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- Control Equipment Information

Equipment Type: Other
DAPC Description:
Company ID: Coking Spray Dryer
Company Description: Coking Spray Dryer
Operating Status: Not Operating
Manufacturer:
Initial Installation Date:
Model: Custom

- Specific Equipment Type information

Description: Lime Spray dryer for controlling SO2 emissions in the waste gas from the coking process.

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
Hydrochloric Acid (Hydrogen Chloride)	95	0	0	0
SO2 - Sulfur Dioxide	92	0	0	0

- Associated Control Equipments And Egress Points

Control Equipment : Pushing Multicyclone

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- Control Equipment Information

Equipment Type: Cyclone/Multiclone
DAPC Description:
Company ID: Pushing Multicyclone
Company Description: Flat car pushing, mobile hood with multicyclone
Operating Status: Not Operating Initial Installation Date:
Manufacturer: Custom Model: Custom

- Specific Equipment Type information

Cyclone Type: Multiclone
Description:
Operating Pressure Drop Range:
Inlet Gas Flow Rate: 82000
Outlet Gas Flow Rate: 82000

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
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- Associated Control Equipments And Egress Points

Egress Point : Charging

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- Egress Point Information

Release Type: Vertical
DAPC Description:
Company ID: Charging
Company Description: Charging
Operating Status: Not Operating
Base Elevation (ft): 655.0 Fenceline Distance (ft): 655.0
Release Height (ft): 25.7

- Building Dimension

Length (ft) 1500.0 Width (ft): 50.0
Height (ft): 15.0

- Egress Latitude and Longitude

Latitude (deg-min-sec): (39.0, 28.0, 22.0) Longitude (deg-min-sec): (-84.0, 24.0, 2.0)

- Stack Details

Shape: Round Cross Sectional Area (square ft):
Diameter (ft): 4.5
Temp At Max. Oper (F): 300.0 Flow At Max. Oper (acfm): 65000.0
Temp At Avg. Oper (F): 120.0 Flow At Avg. Oper (acfm): 55000.0

- EIS Information

Horizontal Collection Method Code: Global Positioning Method, with unspecified parameters
Horizontal Accuracy Measure: 100 Meter Accuracy
Reference Point Code: Point where a substance is released
Horizontal Reference Datum Code: World Geodetic System of 1984
Coordinate Data Source Code: An Organization or individual that contracts to perform work

- CEM Data

Description	H2S	SO2	NOX	CO	THC	HCL	HFL	O	TRS	CO2	FLOW	OPACITY	PM
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Egress Point : Main Stack

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- Egress Point Information

Release Type: Vertical
DAPC Description:
Company ID: Main Stack
Company Description: Main Stack
Operating Status: Not Operating
Base Elevation (ft): 655.0 Fenceline Distance (ft): 655.0
Release Height (ft): 210.0

- Building Dimension

Length (ft) 110.0 Width (ft): 70.0
Height (ft): 95.0

- Egress Latitude and Longitude

Latitude (deg-min-sec): (39.0, 28.0, 16.0) Longitude (deg-min-sec): (-84.0, 23.0, 59.0)

- Stack Details

Shape: Round Cross Sectional Area (square ft):
Diameter (ft): 13
Temp At Max. Oper (F): 240.0 Flow At Max. Oper (acfm): 414000.0
Temp At Avg. Oper (F): 240.0 Flow At Avg. Oper (acfm): 414000.0

- EIS Information

Horizontal Collection Method Code: Global Positioning Method, with unspecified parameters
Horizontal Accuracy Measure: 100 Meter Accuracy
Reference Point Code: Point where a substance is released
Horizontal Reference Datum Code: World Geodetic System of 1984
Coordinate Data Source Code: An Organization or individual that contracts to perform work

- CEM Data

Description	H2S	SO2	NOX	CO	THC	HCL	HFL	O	TRS	CO2	FLOW	OPACITY	PM
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Egress Point : Pushing

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- Egress Point Information

Release Type: Vertical
DAPC Description:
Company ID: Pushing
Company Description: Pushing
Operating Status: Not Operating
Base Elevation (ft): 655.0 Fenceline Distance (ft): 655.0
Release Height (ft): 20.0

- Building Dimension

Length (ft) 1500.0 Width (ft): 50.0
Height (ft): 15.0

- Egress Latitude and Longitude

Latitude (deg-min-sec): (39.0, 28.0, 21.0) Longitude (deg-min-sec): (-84.0, 24.0, 2.0)

- Stack Details

Shape: Round Cross Sectional Area (square ft):
Diameter (ft): 5.0
Temp At Max. Oper (F): 400.0 Flow At Max. Oper (acfm): 82000.0
Temp At Avg. Oper (F): 320.0 Flow At Avg. Oper (acfm): 43000.0

- EIS Information

Horizontal Collection Method Code: Global Positioning Method, with unspecified parameters
Horizontal Accuracy Measure: 100 Meter Accuracy
Reference Point Code: Point where a substance is released
Horizontal Reference Datum Code: World Geodetic System of 1984
Coordinate Data Source Code: An Organization or individual that contracts to perform work

- CEM Data

Description	H2S	SO2	NOX	CO	THC	HCL	HFL	O	TRS	CO2	FLOW	OPACITY	PM
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Egress Point : Vent Stacks

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- Egress Point Information

Release Type: Vertical
DAPC Description:
Company ID: Vent Stacks
Company Description: By Pass Vent Stacks
Operating Status: Not Operating
Base Elevation (ft): 655.0 Fenceline Distance (ft): 655.0
Release Height (ft): 83.0

- Building Dimension

Length (ft) 1500.0 Width (ft): 50.0
Height (ft): 15.0

- Egress Latitude and Longitude

Latitude (deg-min-sec): (39.0, 28.0, 19.0) Longitude (deg-min-sec): (-84.0, 24.0, 0.0)

- Stack Details

Shape: Round Cross Sectional Area (square ft):
Diameter (ft): 9.0
Temp At Max. Oper (F): 1900.0 Flow At Max. Oper (acfm): 263000.0
Temp At Avg. Oper (F): 1900.0 Flow At Avg. Oper (acfm): 263000.0

- EIS Information

Horizontal Collection Method Code: Global Positioning Method, with unspecified parameters
Horizontal Accuracy Measure: 100 Meter Accuracy
Reference Point Code: Point where a substance is released
Horizontal Reference Datum Code: World Geodetic System of 1984
Coordinate Data Source Code: An Organization or individual that contracts to perform work

- CEM Data

Description	H2S	SO2	NOX	CO	THC	HCL	HFL	O	TRS	CO2	FLOW	OPACITY	PM
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