

Facility Profile Report
Facility Name: Cleveland Public Power - Ridge Rd
ID: 1318008750

- **Facility Information**

Facility ID: 1318008750

FacilityName: Cleveland Public Power - Ridge Rd

Facility Description:

Address1: 3227 Ridge Rd

Address2:

City: Cleveland

State: Ohio

Zip Code: 44413

County: Cuyahoga

2nd Notification County:

Portable:

Portable Group Name:

Portable Group Type:

Operating Status: Not Installed

Permitting Classification: NONE

PER Due Date: None

Transitional Status: None

Title V Permit Status: None

Title V Certification Report Due Date:

Anticipated Emissions Reporting NONE
Category for 2013:

Core Place ID: 134169

Intra State Voucher Flag:

Federal SCSC ID

Latitude(deg,min,sec): (41.0, 27.0, 22.648315)

Longitude(deg,min,sec): (-81.0, 44.0, 0.70129395)

- **Notes**

User Name	Date	Note

- **PER Due Dates**

Due Date	Effective Date
None	12/31/1969

- **Yearly Emissions Reporting Category**

Year	Category	Enabled	Status	Comment

- **SIC Codes**

- **NAICS Codes**

221119 Other Electric Power Generation
562213 Solid Waste Combustors and Incinerators

- **Contacts**

Contact Type	Contact Person	Phone Number	Email	Start Date	End Date
Billing	Henderson, Ivan	(216) 664-2708	ihenderson@cpp.org	02/24/2012	
Owner	Henderson, Ivan	(216) 664-2708	ihenderson@cpp.org	03/11/2011	
Primary	Henderson, Ivan	(216) 664-2708	ihenderson@cpp.org	03/11/2011	

Responsible Official	Withers, Barry	(216)664-5602	barry_withers@clevelandwater.com	03/11/2011	
Billing	Tien, Peter	(973)317-9001		03/11/2011	02/23/2012

Contact Detail For : Henderson, Ivan

Prefix: First Name: Ivan
Middle Name: Last Name: Henderson
Suffix:
Company Title: Operating Company Name:
Address 1: 1300 Lakeside Avenue
Address 2:
City: Cleveland Zip Code: 44114
State: Ohio
Work Phone No: (216)664-2708 Secondary Phone No.:
Address 2: Secondary Ext. No.:
Mobile Phone No.: Pager No.:
Fax No: Pager PIN No.:
Email: ihenderson@cpp.org
Email Pager Address:

Contact Detail For : Withers, Barry

Prefix: First Name: Barry
Middle Name: Last Name: Withers
Suffix:
Company Title: Operating Company Name:
Address 1: 1201 Lakeside Avenue
Address 2:
City: Cleveland Zip Code: 44114
State: Ohio
Work Phone No: (216)664-5602 Secondary Phone No.:
Address 2: Secondary Ext. No.:
Mobile Phone No.: Pager No.:
Fax No: Pager PIN No.:
Email: barry_withers@clevelandwater.com
Email Pager Address:

Contact Detail For : Tien, Peter

Prefix: First Name: Peter
Middle Name: Last Name: Tien
Suffix:
Company Title: Operating Company Name:
Address 1: 1120 Chester Avenue

Address 2:

City: Cleveland

Zip Code: 44114

State: Ohio

Work Phone No: (973) 317-9001

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 Information

DAPC Emissions Unit ID: B001

DAPC Description: MSW Gasifier Line No. 1 - Processing line using Kinsei Sangyo technology that includes two batch gasifiers, a furnace, a HRSG and air pollution control equipment.

Company Equipment ID: Gasifier/Furnace/HRSG No. 1

Company Description: MSW Gasifier Line No. 1 - Processing line using Kinsei Sangyo technology that includes two batch gasifiers, a furnace, a HRSG and air pollution control equipment.

Operating Status: Not Installed

Completion of Initial Installation Date:

Begin Installation/Modification Date:

Commence Operation After Installation or Latest Modification Date:

Title V EU Classification: Non-insignificant

Exemption Status: NA

Boiler/Turbine/Generator Design Boiler/Heater Capacity:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

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

- Emission Process Information

Process ID: Syngas Production 1

Company Process Description: Combustion of Syngas Produced from MSW

Source Classification Code (SCC): 1-02-007-99

Control equipment(s) directly associated with this process

BH No. 1

Emission Unit : B002

May 8 2013, 11:50:00

- Emission Unit Information

DAPC Emissions Unit ID: B002

DAPC Description: MSW Gasifier Line No. 2 - Processing line using Kinsei Sangyo technology that includes two batch gasifiers, a furnace, a HRSG and air pollution control equipment.

Company Equipment ID: Gasifier/Furnace/HRSG No. 2

Company Description: MSW Gasifier Line No. 2 - Processing line using Kinsei Sangyo technology that includes two batch gasifiers, a furnace, a HRSG and air pollution control equipment.

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Title V EU Classification: Non-insignificant

Exemption Status: NA

Boiler/Turbine/Generator Design Boiler/Heater
Capacity:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

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

- Emission Process Information

Process ID: Syngas Combustion 2

Company Process Description: Combustion of Syngas Produced from MSW

Source Classification Code (SCC): 1-02-007-99

Control equipment(s) directly associated with this process

BH No. 2

- Emission Unit Information

DAPC Emissions Unit ID: B003

DAPC Description: MSW Gasifier Line No. 3 - Processing line using Kinsei Sangyo technology that includes two batch gasifiers, a furnace, a HRSG and air pollution control equipment.

Company Equipment ID: Gasifier/Furnace/HRSG No. 3

Company Description: MSW Gasifier Line No. 3 - Processing line using Kinsei Sangyo technology that includes two batch gasifiers, a furnace, a HRSG and air pollution control equipment.

Operating Status: Not Installed

Completion of Initial Installation Date:

Begin Installation/Modification Date:

Commence Operation After Installation or Latest Modification Date:

Title V EU Classification: Non-insignificant

Exemption Status: NA

Boiler/Turbine/Generator Design Boiler/Heater Capacity:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

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

- Emission Process Information

Process ID: Syngas Combustion 3

Company Process Description: Combustion of Syngas Produced from MSW

Source Classification Code (SCC): 1-02-007-99

Control equipment(s) directly associated with this process

BH No. 3

Emission Unit : B004

May 8 2013, 11:50:00

- Emission Unit Information

DAPC Emissions Unit ID: B004

DAPC Description: MSW Gasifier Line No. 4 - Processing line using Kinsei Sangyo technology that includes two batch gasifiers, a furnace, a HRSG and air pollution control equipment.

Company Equipment ID: Gasifier/Furnace/HRSG No. 4

Company Description: MSW Gasifier Line No. 4 - Processing line using Kinsei Sangyo technology that includes two batch gasifiers, a furnace, a HRSG and air pollution control equipment.

Operating Status: Not Installed

Completion of Initial Installation Date:

Begin Installation/Modification Date:

Commence Operation After Installation or Latest Modification Date:

Title V EU Classification: Non-insignificant

Exemption Status: NA

Boiler/Turbine/Generator Design Boiler/Heater Capacity:

ORIS Boiler ID:

- Allowable Emissions (EUlevel)

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

- Emission Process Information

Process ID: Syngas Combustion 4

Company Process Description: Combustion of Syngas Produced from MSW

Source Classification Code (SCC): 1-02-007-99

Control equipment(s) directly associated with this process

BH No. 4

- **Emission Unit Information**

DAPC Emissions Unit ID: F001

DAPC Description: MSW Pre-Processing

Company Equipment ID: MSW Pre-Processing

Company Description: Processing equipment to extract recyclable materials (e.g., glass, ferrous metals, non-ferrous metals, etc.) and prepare the MSW feedstock for use in the Kinsei Sangyo batch gasifiers.

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Title V EU Classification: Insignificant

Exemption Status: Permit Exempt

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: MSW Processing

Company Process Description: MRF Equipment

Source Classification Code (SCC): 3-99-999-97

Control equipment(s) directly associated with this process

MRF Cyclone

MRF Building

Emission Unit : P001

May 8 2013, 11:50:00

- Emission Unit Information

DAPC Emissions Unit ID: P001

DAPC Description: Bottom Ash Storage Silo. Storage silo for ash removed from the gasifiers.

Company Equipment ID: Bottom Ash Storage Silo

Company Description: Storage Silo for ash removed from the gasifiers. Emissions will either be de minimis pursuant to OAC rule 3745-15-05 or storage will be exempt pursuant to OAC rule 3745-31-03(A)(1)(y) or (A)(1)(z).

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Title V EU Classification: Insignificant

Exemption Status: Permit Exempt

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 : P002

May 8 2013, 11:50:00

- Emission Unit Information

DAPC Emissions Unit ID: P002

DAPC Description: Flyash Storage Silo for flyash removed from the baghouses.

Company Equipment ID: Baghouse Dust Storage Silo

Company Description: Storage Silo for flyash removed from the baghouses. Emissions will either be de minimis pursuant to OAC rule 3745-15-05 or storage will be exempt pursuant to OAC rule 3745-31-03(A)(1)(y) or (A)(1)(z).

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Title V EU Classification: Insignificant

Exemption Status: Permit Exempt

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

May 8 2013, 11:50:00

- Emission Unit Information

DAPC Emissions Unit ID: P003

DAPC Description: Urea storage silo used to make ammonia for the NOx emission control system.

Company Equipment ID: Urea Storage Silo

Company Description: Silo for the storage of urea used to make ammonia for the NOx emission control system. Emissions will either be de minimis pursuant to OAC rule 3745-15-05 or storage will be exempt pursuant to OAC rule 3745-31-03(A)(1)(y) or (A)(1)(z).

Operating Status: Not Installed

Completion of Initial Installation
Date:

Begin Installation/Modification Date:

Commence Operation After
Installation or Latest Modification
Date:

Title V EU Classification: Insignificant

Exemption Status: Permit Exempt

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

Control Equipment : BH No. 1

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Filter/Baghouse
 DAPC Description:
 Company ID: BH No. 1
 Company Description: Baghouse for Gasifier Line No. 1
 Operating Status: Not Operating Initial Installation Date:
 Manufacturer: To be Determined Model: To Be Determined

- Specific Equipment Type information

Filter/Baghouse Type: Pulse Jet
 Equipment Description: Baghouse No. 1
 Pressure type: negative
 Fabric Cleaning Mechanism: Pulse Jet
 Operating Pressure Drop Range: 1.5 to 4.0
 Lime Injection/fabric Coating Agent: Yes
 Lime Injection/Fabric Coating Agent Type: lime as needed/activated carbon as needed
 Lime Injection/Fabric Coating Feed Rate: lime as needed (est. 55 kg/hr) and/or activated carbon as needed (est. 10.1 kg/hr)
 Bag Leak Detection System: Yes
 Inlet Gas Flow Rate: 66000
 Outlet Gas Flow Rate: 64600
 Inlet Gas Temp: 480
 Outlet Gas Temp: 445

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PE (Filt) - Primary PM, Filterable Portion Only	99.9	99.9	100	99.9
PM10 (Filt) - Primary PM10, Filterable Portion Only	99.9	99.9	100	99.9
PM2.5 - Primary PM2.5 (Includes Filterables + Condensibles) (PM<2.5 Microns)	99.9	99.9	100	99.9

- Associated Control Equipments And Egress Points

Control equipment(s) directly associated with this control equipment

SCR No. 1

Control Equipment : BH No. 2

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Filter/Baghouse
 DAPC Description:
 Company ID: BH No. 2
 Company Description: Baghouse for Gasifier Line No. 2
 Operating Status: Not Operating Initial Installation Date:
 Manufacturer: To be Determined Model: To Be Determined

- Specific Equipment Type information

Filter/Baghouse Type: Pulse Jet
 Equipment Description: Baghouse No. 2
 Pressure type: negative
 Fabric Cleaning Mechanism: Pulse Jet
 Operating Pressure Drop Range: 1.5 to 4.0
 Lime Injection/fabric Coating Agent: Yes
 Lime Injection/Fabric Coating Agent Type: lime as needed/activated carbon as needed
 Lime Injection/Fabric Coating Feed Rate: lime as needed (est. 55 kg/hr) and/or activated carbon as needed (est. 10.1 kg/hr)
 Bag Leak Detection System: Yes
 Inlet Gas Flow Rate: 66000
 Outlet Gas Flow Rate: 64600
 Inlet Gas Temp: 480
 Outlet Gas Temp: 445

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PE (Filt) - Primary PM, Filterable Portion Only	99.9	99.9	100	99.9
PM10 (Filt) - Primary PM10, Filterable Portion Only	99.9	99.9	100	99.9
PM2.5 - Primary PM2.5 (Includes Filterables + Condensibles) (PM<2.5 Microns)	99.9	99.9	100	99.9

- Associated Control Equipments And Egress Points

Control equipment(s) directly associated with this control equipment

SCR No. 2

Control Equipment : BH No. 3

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Filter/Baghouse
 DAPC Description:
 Company ID: BH No. 3
 Company Description: Baghouse for Gasifier Line No. 3
 Operating Status: Not Operating Initial Installation Date:
 Manufacturer: To be Determined Model: To Be Determined

- Specific Equipment Type information

Filter/Baghouse Type: Pulse Jet
 Equipment Description: Baghouse No. 3
 Pressure type: negative
 Fabric Cleaning Mechanism: Pulse Jet
 Operating Pressure Drop Range: 1.5 to 4.0
 Lime Injection/fabric Coating Agent: Yes
 Lime Injection/Fabric Coating Agent Type: lime as needed/activated carbon as needed
 Lime Injection/Fabric Coating Feed Rate: lime as needed (est. 55 kg/hr) and/or activated carbon as needed (est. 10.1 kg/hr)
 Bag Leak Detection System: Yes
 Inlet Gas Flow Rate: 66000
 Outlet Gas Flow Rate: 64600
 Inlet Gas Temp: 480
 Outlet Gas Temp: 445

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PE (Filt) - Primary PM, Filterable Portion Only	99.9	99.9	100	99.9
PM10 (Filt) - Primary PM10, Filterable Portion Only	99.9	99.9	100	99.9
PM2.5 - Primary PM2.5 (Includes Filterables + Condensibles) (PM<2.5 Microns)	99.9	99.9	100	99.9

- Associated Control Equipments And Egress Points

Control equipment(s) directly associated with this control equipment

SCR No. 3

Control Equipment : BH No. 4

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Filter/Baghouse
 DAPC Description:
 Company ID: BH No. 4
 Company Description: Baghouse for Gasifier Line No. 4
 Operating Status: Not Operating Initial Installation Date:
 Manufacturer: To be Determined Model: To Be Determined

- Specific Equipment Type information

Filter/Baghouse Type: Pulse Jet
 Equipment Description: Baghouse No. 4
 Pressure type: negative
 Fabric Cleaning Mechanism: Pulse Jet
 Operating Pressure Drop Range: 1.5 to 4.0
 Lime Injection/fabric Coating Agent: Yes
 Lime Injection/Fabric Coating Agent Type: lime as needed/activated carbon as needed
 Lime Injection/Fabric Coating Feed Rate: lime as needed (est. 55 kg/hr) and/or activated carbon as needed (est. 10.1 kg/hr)
 Bag Leak Detection System: Yes
 Inlet Gas Flow Rate: 66000
 Outlet Gas Flow Rate: 64600
 Inlet Gas Temp: 480
 Outlet Gas Temp: 445

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PE (Filt) - Primary PM, Filterable Portion Only	99.9	99.9	100	99.9
PM10 (Filt) - Primary PM10, Filterable Portion Only	99.9	99.9	100	99.9
PM2.5 - Primary PM2.5 (Includes Filterables + Condensibles) (PM<2.5 Microns)	99.9	99.9	100	99.9

- Associated Control Equipments And Egress Points

Control equipment(s) directly associated with this control equipment

SCR No. 4

Control Equipment : FGD No. 1

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Wet Scrubber
DAPC Description:
Company ID: FGD No. 1
Company Description: Wet FGD No. 1
Operating Status: Not Operating
Manufacturer: To Be Determined
Initial Installation Date:
Model: To Be Determined

- Specific Equipment Type information

Wet Scrubber Type: Packed Bed
Equipment Description: Wet FGD No. 1
Operating Pressure Drop Range: 1.5 to 4.0
pH Range for Scrubbing Liquid: 7 to 8
Scrubber Liquid Recirculated: Yes
Scrubber Liquid Flow Rate: 1,365
Scrubber Liquid Supply Pressure: 43
Inlet Gas Flow Rate: 62050
Outlet Gas Flow Rate: 46210
Inlet Gas Temp: 410
Outlet Gas Temp: 145

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
Hydrochloric Acid (Hydrogen Chloride)	98.0	98.0	100.0	98
Hydrogen Fluoride (Hydrofluoric Acid)	98.0	98.0	100.0	98
SO2 - Sulfur Dioxide	96.0	96.0	100.0	96

- Associated Control Equipments And Egress Points

Egress points(s) directly associated with this control equipment

Flue No. 1

Control Equipment : FGD No. 2

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Wet Scrubber
DAPC Description:
Company ID: FGD No. 2
Company Description: Wet FGD No. 2
Operating Status: Not Operating
Manufacturer: To Be Determined
Initial Installation Date:
Model: To Be Determined

- Specific Equipment Type information

Wet Scrubber Type: Packed Bed
Equipment Description: Wet FGD No. 2
Operating Pressure Drop Range: 1.5 to 4.0
pH Range for Scrubbing Liquid: 7 to 8
Scrubber Liquid Recirculated: Yes
Scrubber Liquid Flow Rate: 1,365
Scrubber Liquid Supply Pressure: 43
Inlet Gas Flow Rate: 62050
Outlet Gas Flow Rate: 46210
Inlet Gas Temp: 410
Outlet Gas Temp: 145

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
Hydrochloric Acid (Hydrogen Chloride)	98.0	98.0	100.0	98
Hydrogen Fluoride (Hydrofluoric Acid)	98.0	98.0	100.0	98
SO2 - Sulfur Dioxide	96.0	96.0	100.0	96

- Associated Control Equipments And Egress Points

Egress points(s) directly associated with this control equipment

Flue No. 2

Control Equipment : FGD No. 3

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Wet Scrubber
DAPC Description:
Company ID: FGD No. 3
Company Description: Wet FGD No. 3
Operating Status: Not Operating
Manufacturer: To Be Determined
Initial Installation Date:
Model: To Be Determined

- Specific Equipment Type information

Wet Scrubber Type: Packed Bed
Equipment Description: Wet FGD No. 3
Operating Pressure Drop Range: 1.5 to 4.0
pH Range for Scrubbing Liquid: 7 to 8
Scrubber Liquid Recirculated: Yes
Scrubber Liquid Flow Rate: 1,365
Scrubber Liquid Supply Pressure: 43
Inlet Gas Flow Rate: 62050
Outlet Gas Flow Rate: 46210
Inlet Gas Temp: 410
Outlet Gas Temp: 145

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
Hydrochloric Acid (Hydrogen Chloride)	98.0	98.0	100.0	98
Hydrogen Fluoride (Hydrofluoric Acid)	98.0	98.0	100.0	98
SO2 - Sulfur Dioxide	96.0	96.0	100.0	96

- Associated Control Equipments And Egress Points

Egress points(s) directly associated with this control equipment

Flue No. 3

Control Equipment : FGD No. 4

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Wet Scrubber
 DAPC Description:
 Company ID: FGD No. 4
 Company Description: Wet FGD No. 4
 Operating Status: Not Operating
 Manufacturer: To Be Determined
 Initial Installation Date:
 Model: To Be Determined

- Specific Equipment Type information

Wet Scrubber Type: Packed Bed
 Equipment Description: Wet FGD No. 4
 Operating Pressure Drop Range: 1.5 to 4.0
 pH Range for Scrubbing Liquid: 7 to 8
 Scrubber Liquid Recirculated: Yes
 Scrubber Liquid Flow Rate: 1,365
 Scrubber Liquid Supply Pressure: 43
 Inlet Gas Flow Rate: 62050
 Outlet Gas Flow Rate: 46210
 Inlet Gas Temp: 410
 Outlet Gas Temp: 145

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
Hydrochloric Acid (Hydrogen Chloride)	98.0	98.0	100.0	98
Hydrogen Fluoride (Hydrofluoric Acid)	98.0	98.0	100.0	98
SO2 - Sulfur Dioxide	96.0	96.0	100.0	96

- Associated Control Equipments And Egress Points

Egress points(s) directly associated with this control equipment

Flue No. 4

Control Equipment : MRF Baghouse

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Filter/Baghouse
 DAPC Description:
 Company ID: MRF Baghouse
 Company Description: Baghouse for MRF Processing Equipment
 Operating Status: Not Operating Initial Installation Date:
 Manufacturer: To Be Determined Model: To Be Determined

- Specific Equipment Type information

Filter/Baghouse Type: Shaker
 Equipment Description: Baghouse for MRF Processing Equipment
 Pressure type: negative
 Fabric Cleaning Mechanism: Shaker
 Operating Pressure Drop Range: TBD
 Lime Injection/fabric Coating Agent: No
 Lime Injection/Fabric Coating Agent None
 Type:
 Lime Injection/Fabric Coating Feed NA
 Rate:
 Bag Leak Detection System: No
 Inlet Gas Flow Rate: 4000
 Outlet Gas Flow Rate: 4000
 Inlet Gas Temp: 70
 Outlet Gas Temp: 70

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PE (Filt) - Primary PM, Filterable Portion Only	99.5	99.5	90	89.55
PM10 (Filt) - Primary PM10, Filterable Portion Only	99.5	99.5	95	94.525
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	99.5	99.5	100	99.5

- Associated Control Equipments And Egress Points

Control equipment(s) directly associated with this control equipment

MRF Misting

Control Equipment : MRF Cyclone

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Cyclone/Multiclone

DAPC Description:

Company ID: MRF Cyclone

Company Description: Cyclone dust collector prior to MRF Baghouse

Operating Status: Not Operating

Initial Installation Date:

Manufacturer: To Be Determined

Model: To Be Determined

- Specific Equipment Type information

Cyclone Type: Simple

Equipment Description: Cyclone prior to MRF Baghouse

Operating Pressure Drop Range: To Be Determined

Inlet Gas Flow Rate: 4000

Outlet Gas Flow Rate: 4000

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PE (Filt) - Primary PM, Filterable Portion Only	70	70	95	66.5
PM10 (Filt) - Primary PM10, Filterable Portion Only	50	50	95	47.5
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	10	10	95	9.5

- Associated Control Equipments And Egress Points

Control equipment(s) directly associated with this control equipment

MRF Baghouse

Control Equipment : MRF Misting

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: Fugitive Dust Suppression

DAPC Description:

Company ID: MRF Misting

Company Description: Misting System to Minimize Fugitive Emissions from Doorways

Operating Status: Operating

Initial Installation Date:

Manufacturer: To Be Determined

Model: To Be Determined

- Specific Equipment Type information

Suppressant Agent Type: Water

Equipment Description: Water Mist

Method of Application: Misting Nozzles

Application Rate - specify units: As Needed

Application Frequency: As Needed

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
PE (Filt) - Primary PM, Filterable Portion Only	95	95	100	95
PM10 (Filt) - Primary PM10, Filterable Portion Only	95	95	100	95
PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only	95	95	100	95

- Associated Control Equipments And Egress Points

Egress points(s) directly associated with this control equipment

MRF Building

Control Equipment : SCR No. 1

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: NOx Reduction Technology

DAPC Description:

Company ID: SCR No. 1

Company Description: Nox Control System No. 1

Operating Status: Not Operating

Initial Installation Date:

Manufacturer: To Be Determined

Model: To Be Determined

- Specific Equipment Type information

Catalytic Reduction Type: Selective Catalytic

Reagent Type: Urea to Ammonia

Reagent Injection Rate - specify TBD (est. 10 kg/hr)
units:

Reagent Slip Conc. - specify units: 1.3 lb/hr

Inlet Gas Flow Rate: 64600

Inlet Gas Temp: 445

Outlet Gas Temp: 410

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
NOx - Nitrogen Oxides	80	80	100	80

- Associated Control Equipments And Egress Points

Control equipment(s) directly associated with this control equipment

FGD No. 1

Control Equipment : SCR No. 2

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: NOx Reduction Technology

DAPC Description:

Company ID: SCR No. 2

Company Description: Nox Control System No. 2

Operating Status: Not Operating

Initial Installation Date:

Manufacturer: To Be Determined

Model: To Be Determined

- Specific Equipment Type information

Catalytic Reduction Type: Selective Catalytic

Reagent Type: Urea to Ammonia

Reagent Injection Rate - specify TBD (est. 10 kg/hr)
units:

Reagent Slip Conc. - specify units: 1.3 lb/hr

Inlet Gas Flow Rate: 64600

Inlet Gas Temp: 445

Outlet Gas Temp: 410

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
NOx - Nitrogen Oxides	80	80	100	80

- Associated Control Equipments And Egress Points

Control equipment(s) directly associated with this control equipment

FGD No. 2

Control Equipment : SCR No. 3

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: NOx Reduction Technology

DAPC Description:

Company ID: SCR No. 3

Company Description: Nox Control System No. 3

Operating Status: Not Operating

Initial Installation Date:

Manufacturer: To Be Determined

Model: To Be Determined

- Specific Equipment Type information

Catalytic Reduction Type: Selective Catalytic

Reagent Type: Urea to Ammonia

Reagent Injection Rate - specify TBD (est. 10 kg/hr)
units:

Reagent Slip Conc. - specify units: 1.3 lb/hr

Inlet Gas Flow Rate: 64600

Inlet Gas Temp: 445

Outlet Gas Temp: 410

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
NOx - Nitrogen Oxides	80	80	100	80

- Associated Control Equipments And Egress Points

Control equipment(s) directly associated with this control equipment

FGD No. 3

Control Equipment : SCR No. 4

May 8 2013, 11:50:00

- Control Equipment Information

Equipment Type: NOx Reduction Technology

DAPC Description:

Company ID: SCR No. 4

Company Description: Nox Control System No. 4

Operating Status: Not Operating

Initial Installation Date:

Manufacturer: To Be Determined

Model: To Be Determined

- Specific Equipment Type information

Catalytic Reduction Type: Selective Catalytic

Reagent Type: Urea to Ammonia

Reagent Injection Rate - specify TBD (est. 10 kg/hr)
units:

Reagent Slip Conc. - specify units: 1.3 lb/hr

Inlet Gas Flow Rate: 64600

Inlet Gas Temp: 445

Outlet Gas Temp: 410

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
NOx - Nitrogen Oxides	80	80	100	80

- Associated Control Equipments And Egress Points

Control equipment(s) directly associated with this control equipment

FGD No. 4

Egress Point : MRF Building

May 8 2013, 11:50:00

- Egress Point Information

Release Type: Fugitive-Volume

DAPC Description:

Company ID: MRF Building

Company Description: MRF Building Doorways

Operating Status: Not Operating

Base Elevation (ft): 728.0

Fenceline Distance (ft): 60.0

- Building Dimension

Length (ft) 365.0

Width (ft): 245.0

Height (ft): 36.0

- Egress Latitude and Longitude

Latitude (deg-min-sec):

Longitude (deg-min-sec):

- Volume Source Dimensions

Width (ft): 24.0

Height (ft): 24.0

Release Height (ft): 8.0

- EIS Information

Horizontal Collection Method: Global Positioning Method, with unspecified parameters

Horizontal Accuracy Measure: 100 Meter Accuracy

Reference Point: Point where a substance is released

Horizontal Reference Datum: World Geodetic System of 1984

Coordinate Data Source Code: An Organization or individual that contracts to perform work

Plume Temp (F): 60.0