

# 2015 Emissions Report

## Facility General Information

**Facility**  
 Identifier: 96-01-007  
 Facility Name: LUTHER COLLEGE Company/Owner Name: Luther College  
 Description: Educational Institution  
 Status: ONRE - Operating as Minor Source Status Date: 6/1/1960 12:00:00 AM  
 Category: UNK - Facility category per 40 CFR 70 Major Source definitions is unknown.  
 NAICS: 61131 - Colleges, Universities, and Professional Schools

Emissions Contact: JAY UTHOFF

Contact Type	Value
Email	UTHOFFJA@LUTHER.EDU
Other	700 COLLEGE DR DECORAH,IA 52101
Phone	(563) 387-1012
Phone	(563) 387-1146

Permit Contact:

Contact Type	Value
Undefined	

Compliance Contact:

Contact Type	Value
Undefined	

### Location Address

700 COLLEGE DR, , DECORAH, IA 52101

### Mailing Address

700 COLLEGE DR, , DECORAH, IA 52101

### Location/Coordinates

Latitude (decimal degrees): 43.30972 Longitude (decimal degrees): -91.80830  
 UTM X (Meters): 597344 UTM Y (Meters): 4796301  
 UTM Zone: 15  
 Collection Method: 006 - address matching-digitized Collection Date:  
 Reference Point: 002 - The entrance Point of a Facility, System, or Station defined as the Plant Entrance (general) Reference System: 002 - North American Datum of 1983

### Additional Information

Field	Value
Facility Employee Count	
Iowa Company Employee Count	
Spray Material Gal Usage Code	
Map Scale No	0
Interest Type	MINOR EI
Secondary NAICS	
Tertiary NAICS	

Comments:

# Release Points

## Release Point

Identifier: EP-1  
 Description: BOILER 3  
 Release Point Type: 2 - Vertical  
 Status: OP - Operating  
 Stack Height: 88  
 Stack Diameter: 4.83  
 Exit Gas Temp: 510  
 Exit Gas Flow Rate: 5050  
 Exit Gas Velocity:  
 Fence Line Distance:  
 Fugitive Height:  
 Fugitive Width:  
 Fugitive Length:  
 Fugitive Angle:

Status Date:  
 Stack Height UOM: FEET  
 Stack Diameter UOM: FEET  
 Exit Gas Temp UOM: °F  
 Exit Gas Flow Rate UOM: SCFM  
 Exit Gas Velocity UOM:  
 Fence Line Distance UOM:  
 Fugitive Height UOM: FEET  
 Fugitive Width UOM: FEET  
 Fugitive Length UOM: FEET  
 Fugitive Angle UOM: Degrees

## Location/Coordinates

Uses Facility Site Location? False  
 Latitude (decimal degrees): 43.31325  
 UTM X (Meters): 597344  
 UTM Zone: 15

Longitude (decimal degrees): -91.79961  
 UTM Y (Meters): 4796301

Collection Method: 006 - address matching-digitized

Collection Date:

Reference Point: 002 - The entrance Point of a Facility, System, or Station defined as the Plant Entrance (general)

Reference System: 002 - North American Datum of 1983

**Additional Information**

Field	Value
Bypass Flag	
Fugitive or Other Type Text	
Discharge Style Type	V - Vertical, without rain cap or with unobstructing rain cap
Rain Cap Flag	
Rain Cap Text	
Exhaust Moisture Percent	
Exit Temp Ambient Flag	
Calculation Other Text	
Start Operation Date	
Ceased Operation Date	

Comments:

**Release Point**

Identifier: EP-2  
Description: BOILER 4  
Release Point Type: 2 - Vertical  
Status: OP - Operating  
Stack Height: 40  
Stack Diameter: 3.25  
Exit Gas Temp: 510  
Exit Gas Flow Rate: 5050  
Exit Gas Velocity:

Status Date:  
Stack Height UOM: FEET  
Stack Diameter UOM: FEET  
Exit Gas Temp UOM: °F  
Exit Gas Flow Rate UOM: SCFM  
Exit Gas Velocity UOM:

Fence Line Distance:  
Fugitive Height:  
Fugitive Width:  
Fugitive Length:  
Fugitive Angle:  
Fence Line Distance UOM:  
Fugitive Height UOM: FEET  
Fugitive Width UOM: FEET  
Fugitive Length UOM: FEET  
Fugitive Angle UOM: Degrees

**Location/Coordinates**

Uses Facility Site Location? False  
Latitude (decimal degrees): 43.31325

Longitude (decimal degrees): -91.79961

UTM X (Meters): 597344

UTM Y (Meters): 4796301

UTM Zone: 15

Collection Method: 006 - address matching-digitized

Collection Date:

Reference Point: 002 - The entrance Point of a Facility, System, or Station defined as the Plant Entrance (general)

Reference System: 002 - North American Datum of 1983

**Additional Information**

Field	Value
Bypass Flag	
Fugitive or Other Type Text	
Discharge Style Type	V - Vertical, without rain cap or with unobstructing rain cap
Rain Cap Flag	
Rain Cap Text	
Exhaust Moisture Percent	
Exit Temp Ambient Flag	
Calculation Other Text	
Start Operation Date	
Ceased Operation Date	

Comments:

**Release Point**

Identifier: EP-3

Description: BOILER 1A STACK

Release Point Type: 5 - Vertical with Rain Cap

Status: OP - Operating

Status Date:

Stack Height: 38.5

Stack Height UOM: FEET

Stack Diameter: 2

Stack Diameter UOM: FEET

Exit Gas Temp: 340

Exit Gas Temp UOM: °F

Exit Gas Flow Rate: 6000

Exit Gas Flow Rate UOM: SCFM

Exit Gas Velocity:

Exit Gas Velocity UOM:

Fence Line Distance: 174

Fence Line Distance UOM: FEET

Fugitive Height:

Fugitive Height UOM: FEET

Fugitive Width:

Fugitive Width UOM: FEET

Fugitive Length:

Fugitive Length UOM: FEET

Fugitive Angle:

Fugitive Angle UOM: Degrees

**Location/Coordinates**

Uses Facility Site Location? False  
 Latitude (decimal degrees): 43.31325 Longitude (decimal degrees): -91.79961  
 UTM X (Meters): 597344 UTM Y (Meters): 4796301  
 UTM Zone: 15  
 Collection Method: 006 - address matching-digitized Collection Date:  
 Reference Point: 002 - The entrance Point of a Facility, System, or Station defined as the Plant Entrance (general) Reference System: 002 - North American Datum of 1983

**Additional Information**

Field	Value
Bypass Flag	
Fugitive or Other Type Text	
Discharge Style Type	VR - Vertical, with obstructing rain cap, or horizontal discharge
Rain Cap Flag	
Rain Cap Text	
Exhaust Moisture Percent	
Exit Temp Ambient Flag	
Calculation Other Text	
Start Operation Date	
Ceased Operation Date	

Comments:

# Control Devices

**Control Device**

Identifier: EMIS. REDUCTION  
 Description: EMISSION REDUCTION EQUIPMENT  
 Status: OP - Operating Status Date:  
 Control Measure: 99 - Other Control Device

**Controlled Pollutants**

Pollutant	Description	Efficiency
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**Additional Information**

Field	Value
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Installation Date	10/20/2004
Modification Date	
Stack Test Date	
Stack Test Method Text	
Capture Hood Flag	
Capture Hood Efficiency Percent	
Start Operation Date	
Ceased Operation Date	

Comments:

## Emission Units

### Emission Unit

Identifier: EU-1A  
Description: BOILER 1A  
Status: OP - Operating  
Type: 100 - Boiler  
Design Capacity:  
Comments:

Status Date:  
Operation Start Date: 10/20/2004 12:00:00 AM  
Design Capacity UOM:

### Additional Information

Field	Value
Location Desc	
Construction Date	10/20/2004
Installation Date	
Modification Date	10/20/2004
Engine Use Type	
Engine Use Text	
Permit By Rule Flag	
Federal Enforceable Limit Text	PM/PM10 0.18 LB/HR
Permit or Rule Limit Text	06-A-841
Construction Limits Desc	

### Emission Unit

Identifier: EU-2

Description: BOILER 2  
 Status: PS - Permanently Shutdown  
 Type: 100 - Boiler  
 Design Capacity: 0.091  
 Comments:

Status Date: 1/1/2006 12:00:00 AM  
 Operation Start Date: 1/1/1946 12:00:00 AM  
 Design Capacity UOM: E3GAL/HR - 1000 GALLONS PER HOUR

**Additional Information**

Field	Value
Location Desc	
Construction Date	01/01/1946
Installation Date	01/01/1946
Modification Date	
Engine Use Type	
Engine Use Text	
Permit By Rule Flag	
Federal Enforceable Limit Text	
Permit or Rule Limit Text	
Construction Limits Desc	

**Emission Unit**

Identifier: EU-3  
 Description: BOILER 3  
 Status: OP - Operating  
 Type: 100 - Boiler  
 Design Capacity: 0.308  
 Comments:

Status Date:  
 Operation Start Date:  
 Design Capacity UOM: E3GAL/HR - 1000 GALLONS PER HOUR

**Additional Information**

Field	Value
Location Desc	
Construction Date	05/26/1960
Installation Date	05/26/1960
Modification Date	
Engine Use Type	
Engine Use Text	
Permit By Rule Flag	

Federal Enforceable Limit Text	PM/PM10 5.32 LB/HR
Permit or Rule Limit Text	06-A-839
Construction Limits Desc	

**Emission Unit**

Identifier: EU-4  
 Description: BOILER 4  
 Status: OP - Operating  
 Type: 100 - Boiler  
 Design Capacity: 0.308  
 Comments:

Status Date:  
 Operation Start Date:  
 Design Capacity UOM: E3GAL/HR - 1000 GALLONS PER HOUR

**Additional Information**

Field	Value
Location Desc	
Construction Date	05/26/1960
Installation Date	05/26/1960
Modification Date	07/02/1997
Engine Use Type	
Engine Use Text	
Permit By Rule Flag	
Federal Enforceable Limit Text	PM/PM10 0.32 LB/HR
Permit or Rule Limit Text	06-A-840
Construction Limits Desc	

# Unit Processes

**Unit Process**

Unit Process Identifier: EU-1A -1  
 SCC: 10300602 - External Combustion Boilers-Commercial/Institutional-Natural Gas-10-100 Million BTU/hr  
 Comments:

Emission Unit Identifier: EU-1A - BOILER 1A

**Control Approach**

Not Controlled?: False  
 Control Approach Description:

Capture Efficiency (%):

**Control Devices**

Control Device Identifier	Description
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**Regulatory Programs**

Regulatory Program
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**Release Point Apportionment**

Release Point Identifier	Description	Emissions (%)
EP-3	BOILER 1A STACK	100

**Additional Information**

Field Name	Field Value
Max Design Rate Amount	24.49
Max Design Rate Unit Code	MILLION BRITISH THERMAL UNITS
Start Operation Date	2004-10-20
Ceased Operation Date	
Raw Material Desc	Natural Gas

**Process Emissions**

Annual Throughput: 78.9  
 Throughput Type: I - Input Throughput UOM: E6FT3 - MILLION CUBIC FEET  
 Throughput Material: 209 - Natural Gas  
 Comments:

**Supplemental Calculation Parameters:**

Ash Content (%): Sulfur Content (%):  
 Heat Content (MMBTU/Unit):

**Operations**

Average Days/Week: 7.0 Average Weeks/Year: 50.8  
 Average Hours/Day: 23.0 Actual Hours: 8178.8

**Seasonal Operations**

March-May (%): 26.0 June-August (%): 22.6  
 September-November (%): 26.1 December-February (%): 25.3  
 Total Summer Season Days: Total Ozone Season Days:  
 Total CO Season Days:

**Emissions**

Pollutant Code	Estimated Emissions (Tons)	Factor Unit	Emission Factor (lbs/Unit)	Calculation Method	Summer Day Emissions (Tons)	Ozone Season Emissions (Tons)
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**Operations**

Average Days/Week:

Average Weeks/Year:

Average Hours/Day:

Actual Hours:

**Seasonal Operations**

March-May (%):

June-August (%):

September-November (%):

December-February (%):

Total Summer Season  
Days:

Total Ozone Season Days:

Total CO Season Days:

**Emissions**

Pollutant Code	Estimated Emissions (Tons)	Factor Unit	Emission Factor (lbs/Unit)	Calculation Method	Summer Day Emissions (Tons)	Ozone Season Emissions (Tons)
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**Emissions Comments**

Pollutant Code	Comment
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**Unit Process**

Unit Process Identifier: EU-3 -2

Emission Unit Identifier: EU-3 - BOILER 3

SCC: 10300602 - External Combustion Boilers-Commercial/Institutional-Natural Gas-10-100 Million BTU/hr

Comments:

**Control Approach**

Not Controlled?: False

Capture Efficiency (%):

Control Approach  
Description:**Control Devices**

Control Device Identifier	Description
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**Regulatory Programs**

Regulatory Program
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**Release Point Apportionment**

Release Point Identifier	Description	Emissions (%)
EP-1	BOILER 3	100

**Additional Information**

Field Name	Field Value
Max Design Rate Amount	43.14
Max Design Rate Unit Code	MILLION BRITISH THERMAL UNITS
Start Operation Date	1960-05-26
Ceased Operation Date	

Raw Material Desc	Natural Gas
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**Process Emissions**

Annual Throughput:

Throughput Type:

Throughput UOM:

Throughput Material:

Comments:

**Supplemental Calculation Parameters:**

Ash Content (%):

Sulfur Content (%):

Heat Content  
(MMBTU/Unit):

**Operations**

Average Days/Week:

Average Weeks/Year:

Average Hours/Day:

Actual Hours:

**Seasonal Operations**

March-May (%):

June-August (%):

September-November (%):

December-February (%):

Total Summer Season  
Days:

Total Ozone Season Days:

Total CO Season Days:

**Emissions**

Pollutant Code	Estimated Emissions (Tons)	Factor Unit	Emission Factor (lbs/Unit)	Calculation Method	Summer Day Emissions (Tons)	Ozone Season Emissions (Tons)
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**Emissions Comments**

Pollutant Code	Comment
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**Unit Process**

Unit Process Identifier: EU-4 -1

Emission Unit Identifier: EU-4 - BOILER 4

SCC: 10300402 - External Combustion Boilers-Commercial/Institutional-Residual Oil-10-100 Million BTU/hr \*\*

Comments:

**Control Approach**

Not Controlled?: False

Capture Efficiency (%):

Control Approach  
Description:

**Control Devices**

Control Device Identifier	Description
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**Regulatory Programs**

Regulatory Program
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**Release Point Apportionment**



Throughput Type: I - Input  
 Throughput Material: 209 - Natural Gas  
 Comments:

Throughput UOM: E6FT3 - MILLION CUBIC FEET

**Supplemental Calculation Parameters:**

Ash Content (%):

Sulfur Content (%):

Heat Content (MMBTU/Unit):

**Operations**

Average Days/Week: 4.9

Average Weeks/Year: 8.0

Average Hours/Day: 24.0

Actual Hours: 940.8

**Seasonal Operations**

March-May (%): 23.9

June-August (%): 0.0

September-November (%): 0.5

December-February (%): 75.6

Total Summer Season Days:

Total Ozone Season Days:

Total CO Season Days:

**Emissions**

Pollutant Code	Estimated Emissions (Tons)	Factor Unit	Emission Factor (lbs/Unit)	Calculation Method	Summer Day Emissions (Tons)	Ozone Season Emissions (Tons)
110543	0.011673	TON	1.8	8		
50000	0.000486375	TON	0.075	8		
7439921	0.0000032425	TON	0.0005	8		
CO	0.54474	TON	84	8		
NH3	0.00317765	TON	0.49	8		
NOX	0.6485	TON	100	8		
PM-PRI	0.049286	TON	7.6	8		
PM10-PRI	0.049286	TON	7.6	8		
PM25-PRI	0.049286	TON	7.6	8		
SO2	0.003891	TON	0.6	8		
VOC	0.0356675	TON	5.5	8		

**Emissions Comments**

Pollutant Code	Comment
110543	
50000	
7439921	

CO	
NH3	
NOX	
PM-PRI	
PM10-PRI	
PM25-PRI	
SO2	
VOC	