



BP America Production Company
Wamsutter Operations Center
P.O. Box 157
Wamsutter, WY 82336

August 27, 2015

NSR Program Manager
Attn: Cole Anderson
Attn: O&G Production Facilities
Wyoming Department of Environmental Quality
Air Quality Division
122 West 25th Street, Herschler Building 2-E
Cheyenne, WY 82002

IMPACT Submittal

**RE: BP America Production Company
 Luman 10-40H Pad
 Compressor Application**

Dear Mr. Anderson:

BP America Production Company hereby submits an air permit application for one (1) 840 hp Waukesha 840hp compressor engine at Luman 10-40H pad. Please contact me at (307)-328-3779 or Shanda.caldwell@bp.com if you have any questions concerning this application.

Sincerely,

Shanda Caldwell

Field Environmental Coordinator

Electronic Signature

BP America Production Company

**BP America Production Company
Wamsutter Operations Center
Luman 10-40H Pad
Oil & Gas Production Facility
Chapter 6, Section 2 Air Permit Application
August 2015**

Description: 840 HP Waukesha F3524GSI

Source Information:

Site Rating¹ = 800 hp
Hours of Operation = 8760 hr/yr
Fuel Consumption = 7,877 Btu/hp-hr

Criteria Pollutant Emissions Calculations:

Pollutant	Emission Factor	Emissions (lb/hr)	Emissions (TPY)
NO _x ²	0.7 g/hp-hr	1.2338	5.4041
CO ²	2.0 g/hp-hr	3.5252	15.4403
VOC ²	0.7 g/hp-hr	1.2338	5.4041
SO ₂ ³	5.88E-04 lb/MMBtu	0.0037	0.0162
PM ³	9.91E-03 lb/MMBtu	0.0624	0.2734
Formaldehyde	0.05 g/hp-hr	0.0881	0.3860

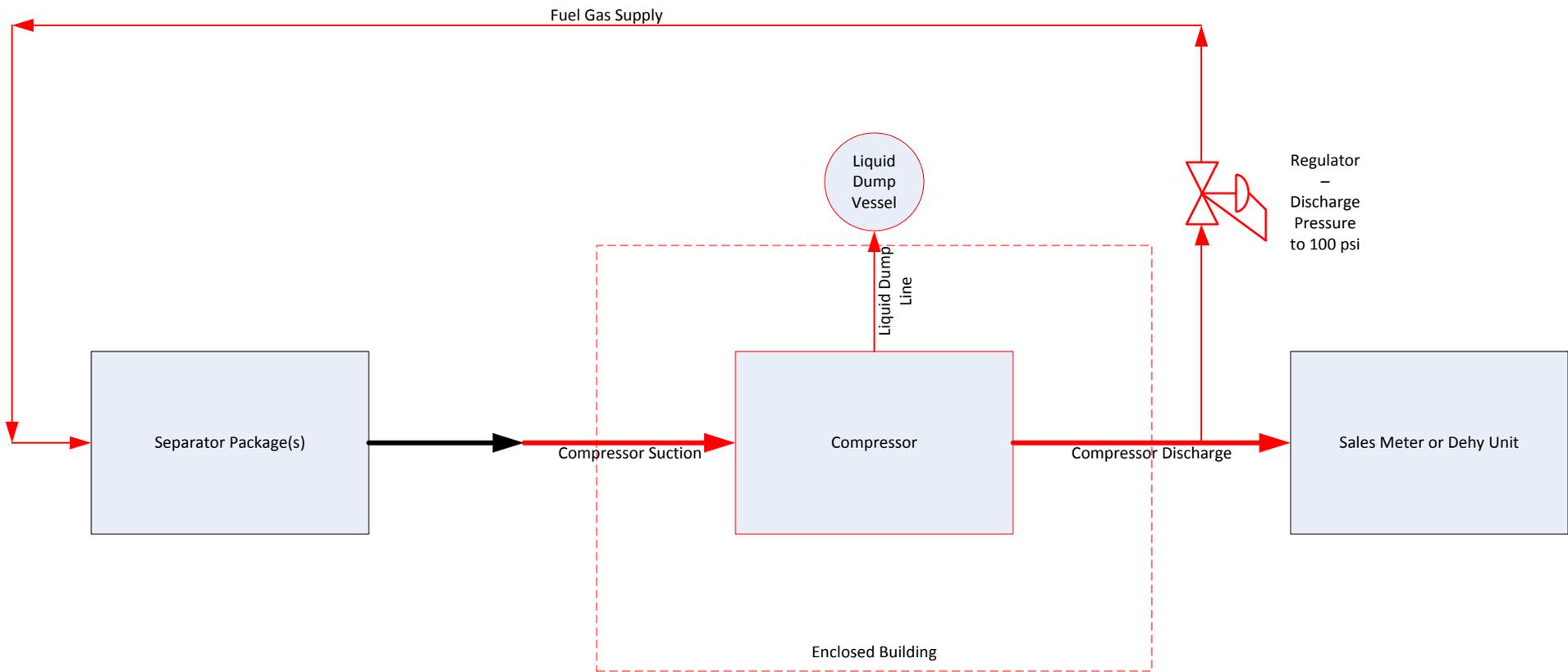
Example Calculations:

NO_x Emissions (lb/hr) = 800 hp * 0.70 g/hp-hr * lb/453.6 g = 1.23 lb/hr
NO_x Emissions (TPY) = 1.23 lb/hr * 8760 hr/yr * 1 Ton/2000 lb = 5.40 tpy

¹ De-rated for an elevation of 6820 ft above MSL.

² DCL America Emissions Statement

³ Based on AP-42, Fifth Edition, Volume 1, Chapter 3, Section 3.2, Table 3.2-3 Uncontrolled Emission Factors For 4-Stroke Rich-Burn Engines, 7/00.



Sketch PFD – Wamsutter 2015 Compressor Installs

NSR Application A0001485
Luman 10-40 H Pad
F026849
August 28, 2015

Air Quality Division
Application for NSR Permit

Sep 10 2015, 13:40:11

NSR Application

Date application received : 08/28/2015

Is this a legacy NSR Application? No

This information should be filled out for each New Source Review (NSR) application. An NSR permit is required for all air contaminant sources (emissions units) installed or modified after January 1, 1974. See the application instructions for additional information.

Emission Unit application reason summary :	<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Synthetic Minor
	<input type="checkbox"/> Modification	<input type="checkbox"/> Temporary Permit
	<input type="checkbox"/> Reconstruction	<input type="checkbox"/> Other

Facility Type : Non-Potential Title V Facility

Sage Grouse : Check Completed by Another Agency/Department

Name of Agency/Department : WOGCC

Purpose of Application

Please summarize the reason this permit is being applied for.

This application is for installation of a compressor engine.

Has the facility changed location or is it a new/greenfield facility? No

Does production at this facility contain H2S? No

Federal Rules Applicability - Facility Level

Prevention of Significant Deterioration (PSD)

These rules are found under WAQSR Chapter 6, Section 4.

Not affected

Non-Attainment New Source Review

These rules are found under WAQSR Chapter 6, Section 13.

Not affected

Trade Secret Information - One or more Emissions Units in this application contains trade secret information.

No

Permit Application Contact - Newly created contacts and application contact changes will be saved when the application is saved.

Shanda Caldwell		BP America Production Company
Name	Title	Company
P.O. Box 157	Wamsutter, WY	82336
Street Address	City/Township, State	Zip Code
(307) 328-3779	(307) 328-3779	shanda.caldwell@bp.com
Phone	Fax	E-mail

Modeling Section

Ambient Air Quality Impact Analysis: WAQSR Chapter 6, Section 2(c)(ii) requires that permit applicants demonstrate that a proposed facility will not prevent the attainment or maintenance of any ambient air quality standard.

Has the applicant contacted AQD to determine if modeling is required? No

Is a modeling analysis part of this application? No

Is the proposed project subject to Prevention of Significant Deterioration (PSD) No requirements?

- **Application Attachments**

Required Attachment	Public Document Id	Attachment Type	Description
X	7732	Process Flow Diagram	flow diagram
X	7733	Emissions Calculations	emission calcs
X	7734	Cover Letter/Project Description	cover letter
X	7735	Equipment List	equipment list

- **Notes**

User Name	Date	Note
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Section II - Specific Air Contaminant Source Information

AQD EU ID: ENG005

AQD EU description:

Company EU ID: ENG005

Company EU Description: Waukesha 840hp engine

- **Source Installation or Modification Schedule** – Select reason(s) for this emissions unit being included in this application (must be completed regardless of date of installation or modification):

Construction(greenfield/new facility)

Date production began:

After permit has been issued :Yes

- **Emission Unit Type Specific Information**

Emission Unit Type : Engine

Btu Content : 1,143.00

Units : Btu/scf

Fuel Sulfur Content : 0.00

Units : ppm

Type of Service : Compression

- **Potential Operating Schedule** – Provide the operating schedule for this emissions unit

Hours/day : 24

Hours/year : 8760

- **Emissions Information** "Potential to emit" means the maximum capacity of a source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation is enforceable by the EPA and the Division. This term does not alter or affect the use of this term for any other purposes under the Act, or the term "capacity factor" as used in Title IV of the Act or the regulations promulgated thereunder.

Basis for Determination Options:

- *Manufacturer Data*
- *Test results for this source*
- *Similar source test results*
- *GRICalc*
- *Tanks Program*
- *AP-42*
- *Other. If this is selected, attach a document with a description of the method used.*

Criteria Pollutants :

Pollutant	Pre-Controlled Potential Emissions (tons/yr)	Efficiency Standards		Potential to Emit (PTE) (lbs/hr)*	Potential to Emit (PTE) (tons/yr)*	Basis for Determination*
		Potential to Emit (PTE)*	Units*			
Particulate emissions (PE/PM) (formerly particulate matter, PM)	0	0		1.23	5.4	AP-42
PM # 10 microns in diameter (PE/PM10)	0	0		0	0	
PM # 2.5 microns in diameter (PE/PM2.5)	0	0		0	0	

Sulfur dioxide (SO ₂)	0	0		0.0037	0.016	AP-42
Nitrogen oxides (NO _x)	0	0		1.23	5.4	Manufacturer Data
Carbon monoxide (CO)	0	0		3.52	15.44	Manufacturer Data
Volatile organic compounds (VOC)	0	0		1.23	5.4	Manufacturer Data
Lead (Pb)	0	0		0	0	
Total Hazardous Air Pollutants (HAPs)	0	0		0	0	
Fluoride (F)	0	0		0	0	
Hydrogen Sulfide (H ₂ S)	0	0		0	0	
Mercury (Hg)	0	0		0	0	
Total Reduced Sulfur (TRS)	0	0		0	0	
Sulfuric Acid Mist (SAM)	0	0		0	0	

Hazardous Air Pollutants (HAPs) and Toxic Air Contaminants:

Pollutant	Pollutant Category	Pre-Controlled Potential Emissions (tons/yr)	Efficiency Standards		Potential to Emit (PTE) (lbs/hr)*	Potential to Emit (PTE) (tons/yr)*	Basis for Determination*
			Potential to Emit (PTE)*	Units*			

Greenhouse Gases (GHGs):

Pollutant	Pollutant Category	Pre-Controlled Potential Emissions (tons/yr)	Efficiency Standards		Potential to Emit (PTE) (lbs/hr)*	Potential to Emit (PTE) (tons/yr)*	Basis for Determination*
			Potential to Emit (PTE)*	Units*			

* Provide your calculations as an attachment and explain how all process variables and emissions factors were selected. Note the emission factor(s) employed and document origin. Example: AP-42, Table 4.4-3 (8/97); stack test, Method 5, 4/96; mass balance based on MSDS; etc.

** AQD Calculated - See 'Help' for more information.

- Best Available Control Technology (BACT)

Was a BACT Analysis completed for this unit? No

- Lowest Achievable Emission Rate (LAER)

Was a LAER Analysis completed for this unit? No

- Federal and State Rule Applicability

New Source Performance Standards (NSPS)
 New Source Performance Standards are listed under 40 CFR 60 - Standards of Performance for New Stationary Sources.

Subject to subpart

NSPS Subpart
JJJJ - Stationary Spark Ignition Internal Combustion Engine

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 61)
 National Emissions Standards for Hazardous Air Pollutants

Not affected

(NESHAP Part 61) are listed under 40 CFR 61. (These include asbestos, benzene, beryllium, mercury, and vinyl chloride).

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63)

Subject to subpart

National Emission Standards for Hazardous Air Pollutants (NESHAP Part 63) standards are listed under 40 CFR 63.

Part 63 NESHAP Subpart
ZZZZ - Reciprocating Internal Combustion Engines

Prevention of Significant Deterioration (PSD)

Not Affected

These rules are found under WAQSR Chapter 6, Section 4.

Non-Attainment New Source Review

Not Affected

These rules are found under WAQSR Chapter 6, Section 13.

- **Emission Unit Attachments**

Required Attachment	Public Document Id	Attachment Type	Description
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Facility Detail Report
Facility Name: Luman 10-40 H Pad
ID: F026849

- **Facility Information**

Facility ID: F026849
 FacilityName: Luman 10-40 H Pad
 Facility Description:
 Company Name: BP America Production Company
 Operating Status: Operating
 Facility Class: Minor
 CERR Class: NON
 AFS:
 Facility Type: Production Site

- **Location**

Physical Address	City	County	Lat/Long	PLSS	Effective Date
Section 10, 22N, 95W	Sweetwater County	Sweetwater	41.89898/-108.14098	QNWNW-S10-T22N-R95W	04/27/2015

Location Detail For : Section 10, 22N, 95W

Latitude: 41.89898 Longitude: -108.14098
 Quarter Quarter: NW Quarter: NW
 Section: 10
 Township: 22N Range: 95W
 County: Sweetwater State: Wyoming
 Distict: District 5
 Physical Address 1: Section 10, 22N, 95W Physical Address 2:
 City: Sweetwater County Zip: 82935
 Effective Date: 04/27/2015

- **API**

API
0000000
3729450
3729451

- **Notes**

User Name	Date	Note

- **NAICS Codes**

21111 Oil and Gas Extraction

- **Contacts**

Contact Type	Contact Person	Phone Number	Email	Start Date	End Date
Environmental contact	Caldwell, Shanda	(307) 328-3779	shanda.caldwell@bp.com	04/28/2015	

Contact Detail For : Caldwell, Shanda

Prefix: First Name: Shanda

Middle Name:

Last Name: Caldwell

Suffix:

Company Title:

Contact's Company Name: BP America Production Company

Address 1: P.O. Box 157

Address 2:

City: Wamsutter

Zip Code: 82336

State: Wyoming

Work Phone No: (307)328-3779

Secondary Phone No.:

Address 2:

Secondary Ext. No.:

Mobile Phone No.:

Pager No.:

Fax No: (307)328-3779

Pager PIN No.:

Email: shanda.caldwell@bp.com

Email Pager Address:

- **Rules & Regs**

Subject to Part 60 NSPS:

Subject to 112(r) Accidental Release Prevention:

Subject to Part 61 NESHAP:

Subject to non-attainment NSR:

Subject Part 63 NESHAP:

Subject to PSD:

Subject to Title IV Acid Rain:

- **Attachments**

Description	Type	Modified By	Modified Date
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- **Version**

Version ID	Version Start Date	Version End Date	Preserved
CURRENT	09/02/2015		
31912	08/28/2015	09/02/2015	X
30814	06/18/2015	08/28/2015	X
30257	05/06/2015	06/18/2015	X
30130	04/27/2015	05/06/2015	X

Emission Unit : ENG001

Sep 10 2015, 13:44:37

- Emission Unit Information

AQD Emissions Unit ID: ENG001

Emission Unit Type: Engine

Name Plate Rating: 449.00

Units: hp

Site Rating: 427.00

Units: hp

Primary Fuel Type: Field Gas

Secondary Fuel Type: Pipeline Grade Natural Gas

Model Name and Number: NGEEngines D146L

Engine: 4 Stroke Rich Burn

AQD Description:

Company Equipment ID: Generator 1

Company Equipment Description: 250 kW Trailer Mounted Generator - engine driver is 449 hp (14.6L) Natural Gas Engine

Operating Status: Not Yet Installed

Initial Construction Commencement Date:

Initial Operation Commencement Date:

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Serial Number Tracking

Serial Number	Manufacturer Name	Construction/Installation Commencement Date	Operation Commencement/Start-up Date	Order Date	Manufacture Date	Shutdown Date	Removal Date
TBD	NG Engines, Inc.						

- Permitted Emissions

Pollutant	Potential Emissions (Lbs/hour)	Potential Emissions (Tons/Year)	Allowable Emissions (Lbs/Hour)	Allowable Emissions (Tons/Year)	Comments

- Processes

- Emission Process Information

Process ID: PRC001

Process Name:

Company Process Description: Wellhead Compression

Source Classification Code (SCC): 3-10-002-03

Control equipment(s) directly associated with this process

OTH001

Emission Unit : ENG002

Sep 10 2015, 13:44:37

- Emission Unit Information

AQD Emissions Unit ID: ENG002

Emission Unit Type: Engine

Name Plate Rating: 236.00

Units: hp

Site Rating: 225.00

Units: hp

Primary Fuel Type: Field Gas

Secondary Fuel Type: Pipeline Grade Natural Gas

Model Name and Number: NGEEngines D081L

Engine: 4 Stroke Rich Burn

AQD Description:

Company Equipment ID: Generator 2

Company Equipment Description: 95 kW Aggreko trailer mounted generator - 236 hp (8.1L) NG Engine - D081L

Operating Status: Not Yet Installed

Initial Construction Commencement
Date:

Initial Operation Commencement
Date:

Most Recent
Construction/Modification
Commencement Date:

Most Recent Operation
Commencement Date:

- Serial Number Tracking

Serial Number	Manufacturer Name	Construction/Installation Commencement Date	Operation Commencement/Start-up Date	Order Date	Manufacture Date	Shutdown Date	Removal Date
TBD	NG Engines, Inc.						

- Permitted Emissions

Pollutant	Potential Emissions (Lbs/hour)	Potential Emissions (Tons/Year)	Allowable Emissions (Lbs/Hour)	Allowable Emissions (Tons/Year)	Comments

- Processes

- Emission Process Information

Process ID: PRC002

Process Name:

Company Process Description: Generator 2

Source Classification Code (SCC): 3-10-002-03

Control equipment(s) directly associated with this process

OTH002

Emission Unit : ENG003

Sep 10 2015, 13:44:37

- Emission Unit Information

AQD Emissions Unit ID: ENG003

Emission Unit Type: Engine

Name Plate Rating: 449.00

Units: hp

Site Rating: 427.00

Units: hp

Primary Fuel Type: Field Gas

Secondary Fuel Type: Pipeline Grade Natural Gas

Model Name and Number: NGEngines D146L

Engine: 4 Stroke Rich Burn

AQD Description:

Company Equipment ID: Generator 3

Company Equipment Description: 250 kW Trailer Mounted Generator - engine driver is 449 hp (14.6L) Natural Gas Engine

Operating Status: Not Yet Installed

Initial Construction Commencement Date:

Initial Operation Commencement Date:

Most Recent Construction/Modification Commencement Date:

Most Recent Operation Commencement Date:

- Serial Number Tracking

Serial Number	Manufacturer Name	Construction/Installation Commencement Date	Operation Commencement/Start-up Date	Order Date	Manufacture Date	Shutdown Date	Removal Date
TBD	NG Engines, Inc.						

- Permitted Emissions

Pollutant	Potential Emissions (Lbs/hour)	Potential Emissions (Tons/Year)	Allowable Emissions (Lbs/Hour)	Allowable Emissions (Tons/Year)	Comments

- Processes

- Emission Process Information

Process ID: PRC003

Process Name:

Company Process Description: Generator 3

Source Classification Code (SCC): 3-10-002-03

Control equipment(s) directly associated with this process

OTH003

Emission Unit : ENG004

Sep 10 2015, 13:44:37

- Emission Unit Information

AQD Emissions Unit ID: ENG004

Emission Unit Type: Engine

Name Plate Rating: 236.00

Units: hp

Site Rating: 225.00

Units: hp

Primary Fuel Type: Field Gas

Secondary Fuel Type: Pipeline Grade Natural Gas

Model Name and Number: NGEEngines D081L

Engine: 4 Stroke Rich Burn

AQD Description:

Company Equipment ID: Generator 4

Company Equipment Description: 95 kW Aggreko trailer mounted generator - 236 hp (8.1L) NG engine - D081L

Operating Status: Not Yet Installed

Initial Construction Commencement

Date:

Initial Operation Commencement

Date:

Most Recent
Construction/Modification
Commencement Date:

Most Recent Operation
Commencement Date:

- Serial Number Tracking

Serial Number	Manufacturer Name	Construction/Installation Commencement Date	Operation Commencement/Start-up Date	Order Date	Manufacture Date	Shutdown Date	Removal Date
TBD	NG Engines, Inc.						

- Permitted Emissions

Pollutant	Potential Emissions (Lbs/hour)	Potential Emissions (Tons/Year)	Allowable Emissions (Lbs/Hour)	Allowable Emissions (Tons/Year)	Comments

- Processes

- Emission Process Information

Process ID: PRC004

Process Name:

Company Process Description: Generator 4

Source Classification Code (SCC): 3-10-002-03

Control equipment(s) directly associated with this process

OTH004

Emission Unit : ENG005

Sep 10 2015, 13:44:37

- Emission Unit Information

AQD Emissions Unit ID: ENG005

Emission Unit Type: Engine

Name Plate Rating: 840.00

Units: hp

Site Rating: 800.00

Units: hp

Primary Fuel Type: Pipeline Grade Natural Gas

Secondary Fuel Type: N/A

Model Name and Number: waukesha F3524GSI

Engine: 4 Stroke Rich Burn

AQD Description:

Company Equipment ID: ENG005

Company Equipment Description: waukesha 840hp engine

Operating Status: Not Yet Installed

Initial Construction Commencement
Date:

Initial Operation Commencement
Date:

Most Recent
Construction/Modification
Commencement Date:

Most Recent Operation
Commencement Date:

- Serial Number Tracking

Serial Number	Manufacturer Name	Construction/Installation Commencement Date	Operation Commencement/Start-up Date	Order Date	Manufacture Date	Shutdown Date	Removal Date
5283702472	Waukesha						

- Permitted Emissions

Pollutant	Potential Emissions (Lbs/hour)	Potential Emissions (Tons/Year)	Allowable Emissions (Lbs/Hour)	Allowable Emissions (Tons/Year)	Comments

- Processes

- Emission Process Information

Process ID: PRC005

Process Name: ENG05

Company Process Description: Compressor

Source Classification Code (SCC): 2-02-002-53

Control equipment(s) directly associated with this process

OTH005

Control Equipment : OTH001

Sep 10 2015, 13:44:37

- Control Equipment Information

Equipment Type: Other

Control Equipment ID: OTH001

AQD Description:

Company Control Equipment ID: Catalyst 1

Company Control Equipment Description: PSI Catalyst assembly

Operating Status: Not Operating

Initial Installation Date:

Manufacturer: PSI Converter

Model: PSI Substrate

- Specific Equipment Type information

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
CO - Carbon Monoxide	81.3	81.3	100	81.3
NOx - Nitrogen Oxides	83.3	83.3	100	83.3

- Associated Control Equipments And Release Points

Release points(s) directly associated with this control equipment

VER001

Control Equipment : OTH002

Sep 10 2015, 13:44:37

- Control Equipment Information

Equipment Type: Other

Control Equipment ID: OTH002

AQD Description:

Company Control Equipment ID: Catalyst 2

Company Control Equipment Description: PSI manufactured substrate

Operating Status: Not Operating

Initial Installation Date:

Manufacturer: PSI Converter

Model: PSI Substrate

- Specific Equipment Type information

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
CO - Carbon Monoxide	81.3	81.3	100	81.3
NOx - Nitrogen Oxides	83.3	83.3	100	83.3

- Associated Control Equipments And Release Points

Release points(s) directly associated with this control equipment

VER002

Control Equipment : OTH003

Sep 10 2015, 13:44:37

- Control Equipment Information

Equipment Type: Other

Control Equipment ID: OTH003

AQD Description:

Company Control Equipment ID: Catalyst 3

Company Control Equipment Description: PSI substrate

Operating Status: Not Operating

Manufacturer: PSI Converter

Initial Installation Date:

Model: PSI Substrate

- Specific Equipment Type information

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
CO - Carbon Monoxide	81.3	81.3	100	81.3
NOx - Nitrogen Oxides	83.3	83.3	100	83.3

- Associated Control Equipments And Release Points

Release points(s) directly associated with this control equipment

VER003

Control Equipment : OTH004

Sep 10 2015, 13:44:37

- Control Equipment Information

Equipment Type: Other

Control Equipment ID: OTH004

AQD Description:

Company Control Equipment ID: Catalyst 4

Company Control Equipment Description: catalyst on generator

Operating Status: Not Operating

Initial Installation Date:

Manufacturer: PSI Converter

Model: PSI Substrate

- Specific Equipment Type information

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
CO - Carbon Monoxide	81.3	81.3	100	81.3
NOx - Nitrogen Oxides	83.3	83.3	100	83.3

- Associated Control Equipments And Release Points

Release points(s) directly associated with this control equipment

VER004

Control Equipment : OTH005

Sep 10 2015, 13:44:37

- Control Equipment Information

Equipment Type: Other

Control Equipment ID: OTH005

AQD Description:

Company Control Equipment ID: ENG05

Company Control Equipment Description: NSCR Catalyst

Operating Status: Not Operating

Initial Installation Date:

Manufacturer: DCL America Inc.

Model: ELS-2650

- Specific Equipment Type information

- Pollutants Controlled

Pollutant	Design Control Efficiency(%)	Operating Control Efficiency(%)	Capture Efficiency(%)	Total Capture Control(%)
CO - Carbon Monoxide	83.8	83.8	100	83.8
NOx - Nitrogen Oxides	95.5	95.5	100	95.5

- Associated Control Equipments And Release Points

Release points(s) directly associated with this control equipment

VER005

Release Point : VER005

Sep 10 2015, 13:44:37

- Release Point Information

Release Point ID: VER005

Release Type: Vertical

AQD Description:

Company Release Point ID: ENG005

Company Release Point Description: Compressor Exhaust

Operating Status: Not Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.0

Exit Gas Flow Rate (acfm): 999.0

Exit Gas Temp (F): 1200.0

- Release Latitude and Longitude

Latitude: 41.89898

Longitude: -108.14098

- CEM Data

Description	H2S	SO2	NOX	CO	THC	HCL	HFL	O	TRS	CO2	FLOW	OPACITY	PM
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Release Point : VER001

Sep 10 2015, 13:44:37

- Release Point Information

Release Point ID: VER001

Release Type: Vertical

AQD Description:

Company Release Point ID: Exhaust

Company Release Point Description: Exhaust stack post catalyst

Operating Status: Not Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 15.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.0

Exit Gas Flow Rate (acfm): 0.0

Exit Gas Temp (F): 0.0

- Release Latitude and Longitude

Latitude: 41.89898

Longitude: -108.14098

- CEM Data

Description	H2S	SO2	NOX	CO	THC	HCL	HFL	O	TRS	CO2	FLOW	OPACITY	PM
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Release Point : VER002

Sep 10 2015, 13:44:37

- Release Point Information

Release Point ID: VER002

Release Type: Vertical

AQD Description:

Company Release Point ID: Exhaust 2

Company Release Point Description: Exhaust post substrate

Operating Status: Not Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 20.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.0

Exit Gas Flow Rate (acfm): 0.0

Exit Gas Temp (F): 0.0

- Release Latitude and Longitude

Latitude: 41.89898

Longitude: -108.14098

- CEM Data

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

Release Point : VER003

Sep 10 2015, 13:44:37

- Release Point Information

Release Point ID: VER003

Release Type: Vertical

AQD Description:

Company Release Point ID: Exhaust 3

Company Release Point Description: Exhaust from Generator post substrate

Operating Status: Not Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 15.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.0

Exit Gas Flow Rate (acfm): 0.0

Exit Gas Temp (F): 0.0

- Release Latitude and Longitude

Latitude: 41.89898

Longitude: -108.14098

- CEM Data

Description	H2S	SO2	NOX	CO	THC	HCL	HFL	O	TRS	CO2	FLOW	OPACITY	PM
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Release Point : VER004

Sep 10 2015, 13:44:37

- Release Point Information

Release Point ID: VER004

Release Type: Vertical

AQD Description:

Company Release Point ID: Exhaust 4

Company Release Point Description: Generator exhaust post catalyst

Operating Status: Not Operating

Base Elevation (ft): 6772.0

- Stack Details

Stack Height (ft): 15.0

Stack Diameter (ft): 0.5

Exit Gas Velocity (ft/s): 0.0

Exit Gas Flow Rate (acfm): 0.0

Exit Gas Temp (F): 0.0

- Release Latitude and Longitude

Latitude: 41.89898

Longitude: -108.14098

- CEM Data

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