

## Martin, Thornton E

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**From:** Martin, Thornton E  
**Sent:** Monday, August 22, 2016 3:37 PM  
**To:** 'john.w.peaper@cummins.com'  
**Cc:** McKeone, Beverly D  
**Subject:** WV DAQ NSR Permit Application Complete for Cummins Crosspoint, LLC (Fairmont Facility)

**RE: Application Status: Complete  
Cummins Crosspoint, LLC (Fairmont Facility)  
Permit Application No. (R13-3322)  
Plant ID No. 049-00192**

Mr. Peaper:

Your application for a Construction permit for the Fairmont Facility was received by this Division on May 25, 2016 and assigned to the writer for review. Upon review of said application, it has been determined that the application is complete and, therefore, the statutory review period commenced on August 22, 2016.

**In the case of this application, the agency believes it will take approximately 90 days to make a final permit determination.**

This determination of completeness shall not relieve the permit applicant of the requirement to subsequently submit, in a timely manner, any additional or corrected information deemed necessary for a final permit determination.

Should you have any questions, please contact me at (304) 926-0499 ext.1212 or reply to this email.

*Thornton E. Martin Jr.*  
Permit Engineer  
Division of Air Quality  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
Phone: 304-926-0499 X1212  
Fax: 304-926-0479



## Martin, Thornton E

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**From:** Dettinger, Karl L  
**Sent:** Wednesday, August 03, 2016 9:19 AM  
**To:** Martin, Thornton E  
**Cc:** Tephabock, Brian S  
**Subject:** Site Visit at Cummins Crosspoint, LLC Yesterday  
**Attachments:** 005.JPG; 004.JPG; 003.JPG; 002.JPG; IMG\_20160802\_151253390\_HDR.jpg

Hello Lee,

I wanted to get in touch with you about the site visit I did at Cummins Crosspoint yesterday afternoon. I met with David Smallwood II, service manager, and he proceeded to show me around the facility, specifically looking at sources of air pollution at the facility. The sources I saw are described below.

- (1) Emergency generator – could not determine the kW rating of the generator, but I was able to take a photo of the plate on the engine (Photo 005.jpg)
- (1) Filter cleaner – this unit uses air to clean particulate from the diesel particulate filter (Photo 004.jpg)
- (4) solvent parts washers – these are Crystal Clean brand units, and all are the same (Photo 003.jpg) – there is also a Cuda aqueous parts washer that uses hot soapy water to clean parts (Photo 002.jpg)
- (2) used oil heaters – these are Energylogic brand model EL340H units, and both are the same (Photo IMG 20160802...). The information tag on the unit indicated 2.25 gal/hr maximum combustion rate of used oil. When factoring in the heat content of used oil of 125,000 Btu/gal, this works out to a MDHI of approximately 0.281 mmBtu/hr (close to the claimed MDHI of 0.275 mmBtu/hr)

Hope this helps you.

Karl Dettinger

**EMISSION CONTROL INFORMATION**



CUMMINS POWER GENERATION  
1400 73rd Ave. NE  
Minneapolis, MN 55432  
Made in U.S.A.

**THIS ENGINE COMPLIES WITH 2011 US EPA REGULATIONS FOR STATIONARY S.I. ENGINES AND IS CERTIFIED TO OPERATE ON NATURAL GAS OR LPG AT CONSTANT SPEED, IN EMERGENCY USE ONLY.**

**EPA FAMILY: BCExB06.8GDB  
ENGINE FAMILY USEFUL LIFE: 1000 HOURS  
ENGINE NO: K110274726  
DISPLACEMENT: 413/6.8 (C.I.D./L.)**

**SPARK PLUG GAP: 0.030 INCH**

**DATE OF MFG: 11/2011  
E.C.S. : HO2S/FTV/CLS/TWC**

**REFER TO OPERATOR'S MANUAL FOR LUBRICATION  
OIL SPECIFICATIONS AND MAINTENANCE SCHEDULE  
NG: NOx: 2.0 CO: 4.0 VOC: 1.0 (g/HP-hr)  
LPG: CO: 4.4 NOx+HC: 2.7 (g/kW-hr)**





*Faint, illegible text on the side panel of the table, possibly a logo or brand name.*

**"CAUTION" Load Limit**  
100 lbs. Per Sq. Foot



**CUDA**  
AQUEOUS PARTS WASHERS



PARTS CLEAN  
200V 300A



  
 www.ecoenergy.com  
 MH 10002  
 NO. ASSOCIATED  
 WASTE OIL SUPPLY

  
 LISTED

**Multi-Fuel Burning Appliance**

Model No.	Model PL-3000
Rated Cap. Output BTU	275,000 BTU
Fuel Input	2.25 GPH
Models Only	No. 30000-11 or 30000-20
Fuels	#2 Fuel Oil, Waste ATF and kerosene oil
Designed Outlet Air Temp.	200°F Maximum
Flue Draft	0.60" WC
Atomizing Air Pressure	0-11 PSI
Blower Size	10" X 10"
Unit Heater or Ductable	0.50" WC Maximum External Static Pressure
Maximum Fuse Size	25A
Blower Motor	3/4 HP, 115V/60Hz, 16.0A
Burner Motor	1/4 HP, 115V/60Hz, 4.3A
Metering Pump Motor	15 Watt, 115V/60Hz, 0.35A
Ignition Transformer & Circuit	115V/60Hz, 2.0A
Oil Preheaters	6" Top, Bottom & Rear 24" Front and Burner End 18" Chimney

For Commercial and Industrial  
 Published and Additional Policies

## Martin, Thornton E

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**From:** John W Peaper <john.w.peaper@cummins.com>  
**Sent:** Wednesday, June 29, 2016 9:01 AM  
**To:** Martin, Thornton E  
**Cc:** McKeone, Beverly D  
**Subject:** RE: WV DAQ Permit Application Incomplete for Cummins Crosspoint, LLC (Fairmont Facility)  
**Attachments:** Affidavit.pdf

Mr. Martin

Thank you for your email of June 28, 2016.

Attached is a copy of the original Affidavit of Publication that was submitted to WVDEP on June 23, 2016.

With respect to your remaining information requests, we have confirmed that the forms and calculations we submitted were incorrectly based on the assumption that the generator in question was fueled with diesel, rather than natural gas. We apologize for this error and are now in the process of revising the Process Description, the emission calculations and emissions summaries and anticipate being able to submit those revised form to the agency no later than July 5, 2016. At that time, we will be able to provide you with responses to your remaining information requests, namely:

- ii) The Process Description corrected to identify whether the emergency generator is Spark Ignited (including fuel to be utilized) or Compression Ignited (utilizing diesel as fuel).
- iii) A copy of the EPA Certificate of Conformity for the 2011 EPA Engine Family : BCEXB06.8GDB.
- iv) All calculations and emission summaries - corrected based on the actual generator set proposed for the Fairmont Facility.

If in the meantime you have any questions about these developments, please contact me.

John Peaper  
HSE Manager  
Cummins Sales and Service  
317-240-1965

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**From:** Martin, Thornton E [mailto:Thornton.E.Martin@wv.gov]  
**Sent:** Tuesday, June 28, 2016 11:53 AM  
**To:** John W Peaper <john.w.peaper@cummins.com>  
**Cc:** McKeone, Beverly D <Beverly.D.Mckeone@wv.gov>  
**Subject:** WV DAQ Permit Application Incomplete for Cummins Crosspoint, LLC (Fairmont Facility)

**RE: Application Status: Incomplete  
Cummins Crosspoint, LLC  
Permit Application No. (R13-3322)  
Plant ID No. 049-00192**

Mr. Peaper:

Your application for a Construction permit for the Fairmont Facility was received by this Division on May 25, 2016 and assigned to the writer for review. Upon initial review of said application, it was determined that the application as submitted was incomplete based on the following items:

1. Affidavit for Class I legal advertisement not submitted.
2. Based on the requirements of 45CFR60 Subpart III—*Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* and 40CFR63 Subpart ZZZZ—*National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines* the following information is requested:

Emergency Engine:	Manufacturer, Date of Manufacture for the Diesel Engine, copy of the EPA Emissions Certificate of Conformity (based on Year/Make/Model of engine), estimated emissions based on 500 hours of operation.
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On June 22, 2016, the DAQ received information stating the Affidavit of Publication would be sent by the Fairmont Branch via Certified Mail. The Affidavit of Publication remains outstanding as of this date. Also, the EPA Certificate of Conformity received for the engine utilized in the 100 kW emergency generator set was issued on 9/3/15, for EPA Engine Family GCEXB06.8GDB, a 60 Hz Spark Ignited Generator Set, with Emission Controls identified. The Manufacturer's Data sheet included in the information received on June 22, 2016, indicate the engine to be a Spark Ignited Generator Set.

The photos received of the actual generator set indicate the EPA Engine Family to be BCEXB06.8GDB and a manufacture date of 11/2011. The Process Description indicates the generator set to be compression ignited utilizing diesel as fuel and the calculations for the emissions from the engine are based on diesel used as fuel. The photos included of the generator set do not indicate fuel type, however, do provide a specification for Spark Plug Gap.

Based on the information received, the Application remains incomplete and the following information is requested:

- i) A copy or original Affidavit of Publication
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- iii) A copy of the EPA Certificate of Conformity for the 2011 EPA Engine Family : BCEXB06.8GDB.
- iv) All calculations and emission summaries - corrected based on the actual generator set proposed for the Fairmont Facility.

Please address the above deficiencies in writing within fifteen (15) days of the receipt of this email. Application review will not commence until the application has been deemed to be technically complete. Failure to respond to this request in a timely manner may result in the denial of the application.

Should you have any questions, please contact me at (304) 926-0499 ext.1212 or reply to this email.

*Thornton E. Martin Jr.*

Permit Engineer

Division of Air Quality

601 57<sup>th</sup> Street, SE

Charleston, WV 25304

Phone: 304-926-0499 X1212

Fax: 304-926-0479



**Attachment R  
AUTHORITY OF CORPORATION  
OR OTHER BUSINESS ENTITY (DOMESTIC OR FOREIGN)**

*Received at  
DAQ on 6/22/16*

TO: The West Virginia Department of Environmental Protection,  
Division of Air Quality

DATE: June 22, 2016

ATTN.: Director

Corporation's / other business entity's Federal Employer I.D. Number 205012258

The undersigned hereby files with the West Virginia Department of Environmental Protection, Division of Air Quality, a permit application and hereby certifies that the said name is a trade name which is used in the conduct of an incorporated business or other business entity.

Further, the corporation or the business entity certifies as follows:

(1) John W. Peaper (is/are) the authorized representative(s) and in that capacity may represent the interest of the corporation or the business entity and may obligate and legally bind the corporation or the business entity.

(2) The corporation or the business entity is authorized to do business in the State of West Virginia.

(3) If the corporation or the business entity changes its authorized representative(s), the corporation or the business entity shall notify the Director of the West Virginia Department of Environmental Protection, Division of Air Quality, immediately upon such change.

*John W. Peaper*

President or Other Authorized Officer  
(Vice President, Secretary, Treasurer or other  
official in charge of a principal business function of  
the corporation or the business entity)

(If not the President, then the corporation or the business entity must submit certified minutes or bylaws stating legal authority of other authorized officer to bind the corporation or the business entity).

Secretary

Cummins Crosspoint, LLC

Name of Corporation or business entity

## Martin, Thornton E

---

**From:** Martin, Thornton E  
**Sent:** Tuesday, June 28, 2016 11:53 AM  
**To:** 'john.w.peaper@cummins.com'  
**Cc:** McKeone, Beverly D  
**Subject:** WV DAQ Permit Application Incomplete for Cummins Crosspoint, LLC (Fairmont Facility)

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Cummins Crosspoint, LLC  
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Plant ID No. 049-00192**

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Should you have any questions, please contact me at (304) 926-0499 ext.1212 or reply to this email.

*Thornton E. Martin Jr.*

Permit Engineer

Division of Air Quality

601 57<sup>th</sup> Street, SE

Charleston, WV 25304

Phone: 304-926-0499 X1212

Fax: 304-926-0479





**Sales and  
Service**



June 20, 2016

Mr. Lee Martin, Permit Writer  
WVDEP – Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

Re: Cummins Crosspoint LLC R13-3322 Application – Affidavit of Publication of Public Notice

Dear Mr. Martin,

Please find enclosed the Affidavit of Publication of the Public Notice from the TIMES WEST VIRGINIAN newspaper. The Public Notice was published on May 27, 2016.

If you should have any questions, please contact John Peaper, HSE Manager at 317-240-1965.

Sincerely,

A handwritten signature in cursive script that reads 'Brenda Tucker'.

Brenda Tucker  
Branch Administrator

Enclosure

Cummins Sales and Service  
25 Gateway Drive  
Whitehall, WV 26554  
Tel (304) 367-0196  
Fax (304) 367-1077  
salesandservice.cummins.com



AFFIDAVIT OF PUBLICATION

State of West Virginia

County of Marion

NOTICE

Notice is given that Cummins Crosspoint, LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for an NSR Construction Permit for an Engine Repair and Rebuild Shop located on 25 Gateway Drive, White Hall in Marion County, West Virginia. The latitude and longitude coordinates are 39.42826348, -80.19282322.

The applicant estimates the potential to emit the following Regulated Air Pollutants will be: 1.05 tpy of PM, 0.98 tpy of PM10/PM2.5, 0.50 tpy of SOx, 1.22 tpy of NOx, 0.60 tpy of VOC, 0.25 tpy of CO, and 0.00852 tpy of Total HAPs.

Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1250, during normal business hours. Dated this the 25th day of May, 2016.

By: Cummins Crosspoint, LLC, John Peaper HSE Manager 2601 Fortune Circle East Drive Indianapolis, Indiana 46241 Times: May 27, 2016

I, Beverly Miller, being first duly sworn upon my oath, do dispose and say that I am of the TIMES WEST VIRGINIAN, a corporation, publisher of the newspaper entitled the TIMES WEST VIRGINIAN an Independent newspaper:

that I have been duly authorized by the board of directors of such corporation to execute this affidavit of publication: that such newspaper has been published for more than one year prior to publication of the annexed notice described below, that such newspaper is regularly published daily except Saturday and Sunday, for at least fifty weeks during the calendar year, in the Municipality of Fairmont, Marion County, West Virginia; that such newspaper is a newspaper of "general circulation," as that term is defined in article three, chapter fifty-nine of the Code of West Virginia, 1931, as amended, within the publication area or areas of the aforementioned municipality and Marion County; that such newspaper averages in length four or more pages, exclusive of any cover, per issue; that such newspaper is circulated to the general public at a definite price or consideration; that such newspaper is a newspaper to which the general public resorts for passing events of a political, religious, commercial or social nature, and for current happenings, announcements, miscellaneous reading matter, advertisements and other notices.

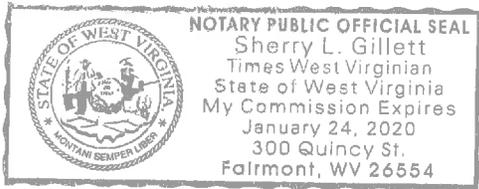
that the annexed notice of Notice was duly published in said newspaper once day for 1 successive day (Class I), commencing with the issue of the 27 day of May, 2016, and ending with the issue of the 27 day of May, 2016, and was posted at the front door of the Marion County Courthouse on the 27 day of May, 2016; that said annexed notice was published on the following dates: May 27, 2016

and the cost of publishing said annexed notice as aforesaid was \$ 26.64

Taken, subscribed and sworn to before me in said county this 2 day of June, 2016.

My commission expires Jan 24, 2020

Sherry L. Gillett
Notary Public of Marion County, West Virginia



## John W Peaper

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**Subject:** FW: WV DAQ Permit Application Incomplete for Cummins Crosspoint, LLC (Fairmont Facility)



**From:** Martin, Thornton E [mailto:Thornton.E.Martin@wv.gov]

**Sent:** Tuesday, June 14, 2016 9:44 AM

**To:** John W Peaper <john.w.peaper@cummins.com>

**Cc:** McKeone, Beverly D <Beverly.D.Mckeone@wv.gov>

**Subject:** WV DAQ Permit Application Incomplete for Cummins Crosspoint, LLC (Fairmont Facility)

**RE: Application Status: Incomplete  
Cummins Crosspoint, LLC  
Permit Application No. (R13-3322)  
Plant ID No. 049-00192**

Mr. Peaper:

Your application for a Construction permit for the Fairmont Facility was received by this Division on May 25, 2016 and assigned to the writer for review. Upon initial review of said application, it has been determined that the application as submitted is incomplete based on the following items:

1. Affidavit for Class I legal advertisement not submitted. – Will be submitted separately by the Fairmont Br. Administrative Assistant via Certified Mail
2. Based on the requirements of 45CFR60 Subpart IIII—*Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* and 40CFR63 Subpart ZZZZ—*National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines* the following information is requested: - Enclosed in this packet

Emergency Engine: Manufacturer, Date of Manufacture for the Diesel Engine, copy of the EPA Emissions Certificate of Conformity (based on Year/Make/Model of engine), estimated emissions based on 500 hours of operation.

Please address the above deficiencies in writing within fifteen (15) days of the receipt of this email. Application review will not commence until the application has been deemed to be technically complete. Failure to respond to this request in a timely manner may result in the denial of the application.

Should you have any questions, please contact me at (304) 926-0499 ext.1212 or reply to this email.

*Thornton E. Martin Jr.*

Permit Engineer

Division of Air Quality

601 57<sup>th</sup> Street, SE

Charleston, WV 25304

Phone: 304-926-0499 X1212



**AUTHORITY OF LIMITED LIABILITY COMPANY (LLC)**

TO: The West Virginia Department of Environmental Protection, Division of Air Quality

DATE: May 25, 2016

ATTN: Director

LLC's Federal Employer I.D. Number 205012258

The undersigned hereby files with the West Virginia Department of Environmental Protection, Division of Air Quality, a permit application and hereby certifies that the said name is a trade name which we are using in the conduct of an unincorporated business.

Further, we have agreed or certified as follows:

- (1) The undersigned is a member and in that capacity may represent the interests of the LLC and may obligate and legally bind all current or future members and the LLC.
- (2) The LLC is authorized to do business in the State of West Virginia.
- (3) The name and business address of each member:

Member: Mike Sandfort  
Address: 2601 Fortune Circle East Suite 300C, Indianapolis, IN 46241

Telephone No.: 317-240-1933

Member: Christine Pfeifler  
Address: 2601 Fortune Circle East Suite 300C, Indianapolis, IN 46241

Telephone No.: 317-240-1945

Member: Merritt Becker  
Address: 2601 Fortune Circle East Suite 300C, Indianapolis, IN 46241

Telephone No.: 317-484-2120

- (4) If any other persons become members of the undersigned or our relations as such be altered in any way or if the business should become incorporated, the undersigned will notify you promptly.

N. M. H. B.

MEMBER OF LLC (Signature)

Merritt Becker

MEMBER OF LLC (Typed)

Cummins Crosspoint, LLC

**LIMITED LIABILITY COMPANY'S NAME**

Address: 2601 Fortune Circle East Suite 300C  
Indianapolis, IN 46241

Telephone No.: 317-243-7979





**Exhaust Emission Data Sheet  
100GGHH  
60 Hz Spark Ignited Generator Set  
EPA Emissions**

<b>Engine Information:</b>			
Model:	WSG-1068	Bore:	3.55 in. (90.2 mm)
Type:	4 Cycle, V-10 Cylinder Spark-Ignited	Stroke:	4.17 in. (105.9 mm)
Aspiration:	Turbocharged	Displacement:	412.5 cu. in. (6.8 liters)
Compression Ratio:	9.0:1		
Emission Control Device:	Electronics Air/Fuel Ratio Control, 3-way Catalyst, and Closed-loop Breather System		

<b>PERFORMANCE DATA</b>	<b>Natural Gas</b>	<b>Propane</b>
	<b>Standby</b>	<b>Standby</b>
Genset Rating (kW) @1800 RPM (60 Hz)	100	100
BHP @ 1800 RPM (60 Hz)	153.2	153.2
Fuel Consumption (SCFH)	1175.8	466.6
Air to Fuel Ratio	17.1	15.5
Exhaust Gas Flow (CFM)	625	609
Exhaust Gas Temperature (°F)	1063	1031
<b>EXHAUST EMISSION DATA</b>		
HC (Total Unburned Hydrocarbons)*	225	92
NOx (Oxides of Nitrogen as NO <sub>2</sub> )	8	16
CO (Carbon Monoxide)	0	24
Values are ppmvd		
HC (Total Unburned Hydrocarbons)*	0.10	0.01
NOx (Oxides of Nitrogen as NO <sub>2</sub> )	0.02	0.01
CO (Carbon Monoxide)	0.00	0.01
Values are Grams per HP-Hour		
*HC includes all NMHC, VOC, POC, and ROC constituents (Non-Methane HC, Volatile Organic Compounds, Precursor Organic Compounds, and Reactive Organic Compounds)		

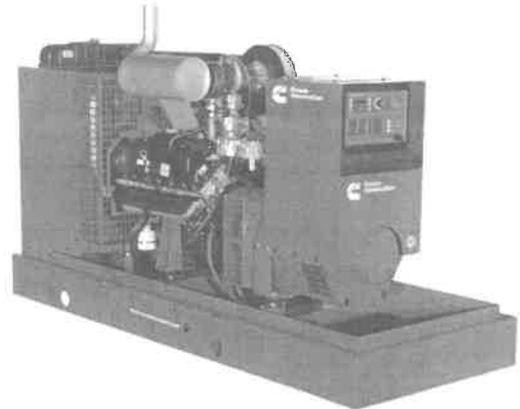
<b>TEST CONDITIONS</b>	
Data was recorded during steady-state rated engine speed (± 25 RPM) with full load (±2%). Pressures, temperatures, and emission rates were stabilized.	
Fuel Specification:	
Natural Gas:	Dry gas as received from Supplier (1000 BTU/SCF).
Propane:	Meets the requirements for Commercial Grade Propane under the ASTM D1835 Standard Specification for Liquefied Gases
Fuel Temperature	60 ± 9 °F at Flow Transmitter
Fuel Pressure	14.73PSIA ± 0.5 PSIA at Flow Transmitter
Intake Air Temperature:	77 ± 9 °F at inlet
Barometric Pressure:	29.92 in. Hg ± 1 in. Hg
Humidity:	NOx measurement corrected to 75 grains H <sub>2</sub> O/lb dry air
The NOx, HC, and CO emission data tabulated here were from a single engine under the test conditions shown above. These data are subjected to instrumentation and engine-to-engine variability. Field emission test data are not guaranteed to these levels. Actual field test results may vary due to test site conditions, installation, fuel specification, test procedures and instrumentation. Engine operation with excessive air intake or exhaust restriction beyond published maximum limit, or with improper maintenance, may result in elevated emission levels.	

Specification sheet



# Spark-ignited generator set

85–100 kW standby  
EPA emissions



## Description

Cummins Power Generation commercial generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary standby and prime power applications.

## Features

**Ford heavy-duty gas engine** - Rugged 4-cycle industrial spark-ignited delivers reliable power. The electronic air/fuel ratio control provides optimum engine performance and fast response to load changes.

**Three-Way Catalyst** - Simultaneously converts NO<sub>x</sub>, CO and HC to nitrogen, oxygen, carbon dioxide and water, minimizing the harmful emissions of the generator set.

**Alternator** - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

**Control system** - The PowerCommand<sup>®</sup> electronic control is standard equipment and provides total genset system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, AmpSentry™ protection, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance.

**Cooling system** - Standard cooling package provides reliable running at up to 40 °C (104 °F) ambient temperature.

**Enclosures** - Optional weather protective and sound attenuated enclosures are available.

**NFPA** - The genset accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

**Warranty and service** - Backed by a comprehensive warranty and worldwide distributor network.

Model	Natural Gas				Propane				Data sheets		
	Standby rating		Prime rating		Standby rating		Prime rating				
	60 Hz kW (kVA)	50 Hz kW (kVA)	60 Hz	50 Hz							
GGHG	85 (106)				85 (106)					D-3384	
GGHH	100 (125)				100 (125)					D-3385	

Our energy working for you.™

©2013 Cummins Power Generation Inc. | S-1607c (8/13)

cumminspower.com

## Generator set specifications

Governor regulation class	ISO 8528 Part 1 Class G3
Voltage regulation, no load to full load	± 1.0%
Random voltage variation	± 1.0%
<b>Frequency regulation</b>	Isochronous
Random frequency variation	GGHH ± 0.5%, GGHG ± 0.33%
Radio frequency emissions compliance	Meets requirements of most industrial and commercial applications

## Engine specifications

Design	Turbocharged
Bore	90.2 mm (3.55 in)
Stroke	105.9 mm (4.17 in)
Displacement	6.8 L (412.5 in <sup>3</sup> )
Cylinder block	Cast iron, V 10 cylinder
Battery capacity	600 amps minimum at ambient temperature of 0 °C (32 °F)
Battery charging alternator	65 amps
Starting voltage	12 volt, negative ground
Lube oil filter type(s)	Single spin-on canister-combination full flow with bypass
Standard cooling system	40 °C (104 °F) ambient radiator

## Alternator specifications

Design	Brushless, 4 pole, drip proof, revolving field
Stator	2/3 pitch
Rotor	Direct coupled, flexible disc
Insulation system	Class H per NEMA MG1-1.65
Standard temperature rise	150 °C (302 °F) standby
Exciter type	Torque match (shunt)
Phase rotation	A (U), B (V), C (W)
Alternator cooling	Direct drive centrifugal blower
AC waveform total harmonic distortion	< 5% no load to full linear load, < 3% for any single harmonic
Telephone influence factor (TIF)	< 50 per NEMA MG1-22.43
Telephone harmonic factor (THF)	< 3

## Available voltages

60 Hz			50 Hz		
3-phase			1-phase	3-phase	1-phase
<ul style="list-style-type: none"> <li>• 120/208</li> <li>• 139/240</li> <li>• 277/480</li> </ul>	<ul style="list-style-type: none"> <li>• 120/240</li> <li>• 240/416</li> <li>• 347/600</li> </ul>	<ul style="list-style-type: none"> <li>• 127/220</li> <li>• 254/440</li> </ul>	<ul style="list-style-type: none"> <li>• 120/240</li> </ul>		

Note: Consult factory for other voltages.

## Generator set options and accessories

### Engine

- 120/240 V 1500 W coolant heaters

### Fuel system

- Natural gas
- Natural gas/propane liquid with automatic changeover
- Natural gas/propane vapor with automatic changeover
- Propane liquid withdrawal
- Vapor withdrawal

### Alternator

- 105 °C (221 °F) rise alternator
- 125 °C (257 °F) rise alternator
- 150 °C (302 °F) rise alternator
- 120/240 V, 100 W anti-condensation heater
- 12 lead, broad range, extended stack (full single phase output)
- Lower broad range
- PMG excitation
- Upper broad range
- Single phase (4 lead)

### Exhaust system

- Mounted residential muffler

### Generator set

- AC entrance box
- Battery
- Battery charger
- Duct adapter
- Enclosure: Aluminum, steel, weather protection or sound attenuated
- Export box packaging
- Main line circuit breaker

- Remote annunciator panel
- UL 2200 Listed
- 2 year prime power, 6000 hours, warranty
- 2 year standby warranty
- 5 year basic power warranty
- 5 year comprehensive warranty

Note: Some options may not be available on all models - consult factory for availability.

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## Control system PCC 2100

**PowerCommand PCC2100** - An integrated generator set control system providing governing, voltage regulation, engine protection and operator interface functions.

- Includes integral AmpSentry protection, which provides a full range of alternator protection functions that are matched to the alternator provided.
- Control function provides battery monitoring and testing features, and smart starting control system.
- Three phase sensing, full wave rectified voltage regulation system, with a PWM output for stable operation with all load types.
- Standard PCCNet interface.
- Suitable for operation in ambient temperatures from -40 °C to +70 °C (-40 °F to +158 °F) and altitudes to 5000 m (13,000 ft).
- Prototype tested; UL, CSA and CE compliant.
- InPower™ PC-based service tool available for detailed diagnostics, setup, data logging and fault simulation.

### AmpSentry AC protection

- AmpSentry Protective Relay – UL-listed
- Over current and short-circuit shutdown
- Over current warning
- Single and three phase fault regulation
- Over and under voltage shutdown
- Over and under frequency shutdown
- Overload warning with alarm contact
- Reverse power and reverse Var shutdown
- Field Overload

### Engine protection

- Overspeed shutdown
- Low oil pressure warning and shutdown
- High coolant temperature warning and shutdown
- High oil temperature warning (optional)
- Low coolant level warning or shutdown
- Low coolant temperature warning
- High and low battery voltage warning
- Weak battery warning
- Dead battery shutdown
- Fail to start (overcrank) shutdown
- Fail to crank shutdown
- Redundant start disconnect
- Cranking lockout
- Sensor failure indication

### Operator interface

- Off/manual/auto mode switch
- Manual run/stop switch
- Panel lamp/test switch
- Emergency stop switch
- Alpha-numeric display with pushbutton access, for viewing engine and alternator data and providing setup, controls and adjustments
- LED lamps indicating genset running, not in auto, common warning, common shutdown
- (5) configurable LED lamps
- LED bargraph AC data display (optional)

### Alternator data

- Line-to-line and line-to-neutral AC volts
- Three phase AC current
- Frequency
- Total and individual phase kW and kVA

### Engine Data

- DC voltage
- Lube oil pressure
- Coolant temperature
- Lube oil temperature (optional)

### Other data

- Genset model data
- Start attempts, starts, running hours
- KW hours (total and since reset)
- Fault history
- Load profile (hours less than 30% and hours more than 90% load)
- System data display (optional with network and other PowerCommand gensets or transfer switches)

### Governing

- Integrated digital electronic isochronous governor
- Temperature dynamic governing
- Smart idle speed mode
- Glow plug control (some models)

### Voltage regulation

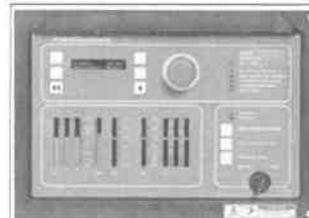
- Integrated digital electronic voltage regulator
- Three phase line-to-neutral sensing
- Configurable torque matching
- PMG (optional)

### Control functions

- Data logging on faults
- Fault simulation (requires InPower)
- Time delay start and cooldown
- Cycle cranking
- (3) configurable customer inputs
- (3) configurable customer outputs

### Options

- Analog AC Meter Display
- Thermostatically Controlled Space Heater
- Key-type mode switch
- Ground fault module
- Auxiliary relays (3)
- Echelon LONWORKS interface
- Modlon Gateway to convert to Modbus (loose)
- PowerCommand iWatch web server for remote monitoring and alarm notification (loose)
- PCCNet and Lonworks Digital input and output module(s) and Remote annunciators (loose)



**PowerCommand 2100  
control operator/display  
panel**

**Emergency standby power (ESP):**

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

**Limited-time running power (LTP):**

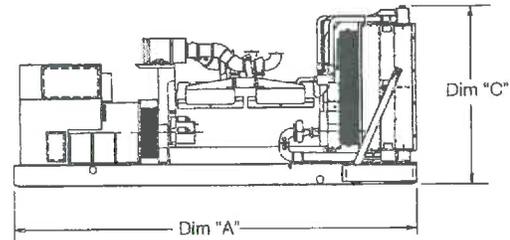
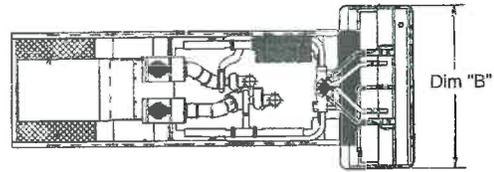
Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.

**Prime power (PRP):**

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

**Base load (continuous) power (COP):**

Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.



This outline drawing is for reference only. See respective model data sheet for specific model outline drawing number.

**Do not use for installation design**

Model	Dim "A" mm (in.)	Dim "B" mm (in.)	Dim "C" mm (in.)	Set Weight* dry kg (lbs)	Set Weight* wet kg (lbs)
GGHG	2662 (104.8)	1016 (40.0)	1397 (55.0)	1071 (2362)	1111 (2450)
GGHH	2662 (104.8)	1016 (40.0)	1397 (55.0)	1093 (2410)	1133 (2498)

\* Weights represent a set with standard features. See outline drawings for weights of other configurations.

**Codes and standards**

Codes or standards compliance may not be available with all model configurations – consult factory for availability.

	<p>This generator set is designed in facilities certified to ISO 9001 and manufactured in facilities certified to ISO 9001 or ISO 9002.</p>		<p>The generator set is available Listed to UL 2200, Stationary Engine Generator Assemblies. The PowerCommand control is Listed to UL 508 - Category NITW7 for U.S. and Canadian usage.</p>
	<p>The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Cummins Power Generation products bearing the PTS symbol meet the prototype test requirements of NFPA 110 for Level 1 systems.</p>	<p><b>U.S. EPA</b></p>	<p>Engine certified to U.S. EPA SI Stationary Emission Regulation 40 CFR, Part 60.</p>
	<p>All low voltage models are CSA certified to product class 4215-01.</p>	<p><b>International Building Code</b></p>	<p>The generator set package is available certified for seismic application in accordance with the following international Building Code: IBC2000, IBC2003, IBC2006, IBC2009 and IBC2012.</p>

**Warning:** Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

North America  
1400 73rd Avenue N.E.  
Minneapolis, MN 55432  
USA

Phone 763 574 5000  
Fax 763 574 5298

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S-1607c (8/13)



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### Sound Pressure Level @ 7 meters, dB(A)

See Notes 1-8 listed below

Configuration		Measurement Location Number								Average
		1	2	3	4	5	6	7	8	
Standard - Unhoused	Infinite Exhaust	81	82	82	81	78	81	80	82	81
F182 and F216 -Weather w/Exhaust Silencer	Mounted Muffler	81	82	79	80	79	80	77	82	80
F172 - Quiet Site II First Stage	Mounted Muffler	79	80	72	72	69	72	72	80	76
F173 and F217 - Quiet Site II Second Stage	Mounted Muffler	70	71	70	71	69	72	71	72	71

### Sound Power Level, dB(A)

See Notes 2-6, 9, 10 listed below

Configuration		Octave Band Center Frequency (Hz)									Overall Sound Power Level
		31.5	63	125	250	500	1000	2000	4000	8000	
Standard - Unhoused	Infinite Exhaust	57	71	88	95	102	102	101	99	96	108
F182 and F216 -Weather w/Exhaust Silencer	Mounted Muffler	56	78	88	94	101	102	100	98	95	107
F172 - Quiet Site II First Stage	Mounted Muffler	57	72	88	91	97	99	97	95	92	104
F173 and F217- Quiet Site II Second Stage	Mounted Muffler	58	72	88	90	91	91	91	92	90	99

### Exhaust Sound Pressure Level @ 1 meter, dB(A)

Open Exhaust (No Muffler Rated Load)	Octave Band Center Frequency (Hz)									Sound Pressure Level
	63	125	250	500	1000	2000	4000	8000		
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Note:**

- Position 1 faces the engine front. The positions proceed around the generator set in a counter-clockwise direction in 45° increments. All positions are at 7m (23 ft) from the surface of the generator set and 1.2m (48") from floor level.
- Sound levels are subject to instrumentation, measurement, installation and manufacturing variability.
- Sound data with remote-cooled generator sets are based on rated loads without cooling fan noise.
- Sound levels for aluminum enclosures are approximately 2 dB(A)s higher than listed sound levels for steel enclosures.
- Sound data for generator set with infinite exhaust do not include exhaust noise.
- Data is based on full rated load with standard radiator-cooling fan package
- Sound Pressure Levels are measured per ANSI S1.13 and ANSI S12.18, as applicable.
- Reference sound pressure is 20 µPa.
- Sound Power Levels per ISO 3744 and ISO 8528-10, as applicable.
- Reference power = 1 µW (10<sup>-12</sup> W)
- Exhaust Sound Pressure Levels are per ISO 6798, as applicable.

6P 680 AA



172A 290911 2720113



FORD WINDSOR ONTARIO CANADA

68L

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09-29-11

EMISSION CONTROL INFORMATION

Cummins Power Generation  
1400 West Ave. SE  
Murrayville, GA 30258  
904-331-1111



THIS ENGINE COMPLIES WITH 2011 US EPA REGULATIONS FOR STATIONARY A.I. ENGINES AND IS CERTIFIED TO OPERATE ON NATURAL GAS OR LPG AT CONSTANT SPEED, IN EMERGENCY USE ONLY.

EPA FAMILY: BCEY006-6GDB  
ENGINE FAMILY USEFUL LIFE: 1000 HOURS  
ENGINE NO: K110274725  
DISPLACEMENT: 4136.8 (C.I.D./L)

SPARK PLUG GAP: 0.030 INCH

DATE OF MFG: 11/2011  
E.C.S.: H02S/FTVCL5/TWC

REFER TO OPERATOR'S MANUAL FOR LUBRICATION OIL SPECIFICATIONS AND MAINTENANCE SCHEDULES  
NG: NOx: 2.0 CO: 4.0 VOC: 1.0 g/hp-hr  
LPG: CO: 4.4 NOx+HC: 2.7 g/hp-hr



approved paralleling  
device.

See operator's manual. 99-5759  
•TMI•

Model No.  
Modelo GGHH-8983821

Serial No.  
Serie K110274726 Spec.

99-5759 No. Required Works Order(s) Parts  
99-2433  
99-5759 Serial Number Only Calibration Data Pages

11/18/2011	MMDDVVVV	Build Date
0326-6967		Calibration P/N
Feature P/N	Feature P/N	Feature P/N
0326-5482	0326-5484	0326-5488
0326-5491	0326-5503	0326-5565
0326-5566	0326-5579	0326-5597
0326-5683	0326-5859	0326-5871
0326-6157	0326-7326	A034Z850
A030Z845		

## Martin, Thornton E

---

**From:** Martin, Thornton E  
**Sent:** Tuesday, June 14, 2016 9:44 AM  
**To:** 'john.w.peaper@cummins.com'  
**Cc:** McKeone, Beverly D  
**Subject:** WV DAQ Permit Application Incomplete for Cummins Crosspoint, LLC (Fairmont Facility)

**RE: Application Status: Incomplete  
Cummins Crosspoint, LLC  
Permit Application No. (R13-3322)  
Plant ID No. 049-00192**

Mr. Peaper:

Your application for a Construction permit for the Fairmont Facility was received by this Division on May 25, 2016 and assigned to the writer for review. Upon initial review of said application, it has been determined that the application as submitted is incomplete based on the following items:

1. Affidavit for Class I legal advertisement not submitted.
2. Based on the requirements of 45CFR60 Subpart IIII—*Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* and 40CFR63 Subpart ZZZZ—*National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines* the following information is requested:

Emergency Engine:                      Manufacturer, Date of Manufacture for the Diesel Engine, copy of the EPA Emissions Certificate of Conformity (based on Year/Make/Model of engine), estimated emissions based on 500 hours of operation.

Please address the above deficiencies in writing within fifteen (15) days of the receipt of this email. Application review will not commence until the application has been deemed to be technically complete. Failure to respond to this request in a timely manner may result in the denial of the application.

Should you have any questions, please contact me at (304) 926-0499 ext.1212 or reply to this email.

*Thornton E. Martin Jr.*  
Permit Engineer  
Division of Air Quality  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
Phone: 304-926-0499 X1212  
Fax: 304-926-0479

**Martin, Thornton E**

---

**From:** Ward, Beth A  
**Sent:** Monday, June 06, 2016 1:34 PM  
**To:** Martin, Thornton E  
**Subject:** CUMMINS CROSSPOINT LLC PERMIT APPLICATION FEE

This is the receipt for payment received from:

CUMMINS CROSSPOINT LLC, FAIRMONT FACILITY, CHECK NUMBER 331293, CHECK DATE 06/02/2016, \$1,000.00  
R13-3322 ID# 049-00192

OASIS Deposit CR 1600133376

Thank You!

*Beth Ward*

WV DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BTO FISCAL  
601 57<sup>TH</sup> STREET SE  
CHARLESTON, WV 25304  
(304) 926-0499 EXT 1846  
[beth.a.ward@wv.gov](mailto:beth.a.ward@wv.gov)

## Martin, Thornton E

---

**From:** Ward, Beth A  
**Sent:** Friday, May 27, 2016 3:29 PM  
**To:** Martin, Thornton E  
**Subject:** CUMMINS CROSSPOINT LLC PERMIT APPLICATION FEE

This is the receipt for payment received from:

CUMMINS CROSSPOINT LLC, FAIRMONT FACILITY, CHECK NUMBER 331126, CHECK DATE 05/24/2016, \$2,500.00  
R13-3322 ID# 049-00192

OASIS Deposit CR 1600130632

Thank You!

*Beth Ward*

WV DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BTO FISCAL  
601 57<sup>TH</sup> STREET SE  
CHARLESTON, WV 25304  
(304) 926-0499 EXT 1846  
[beth.a.ward@wv.gov](mailto:beth.a.ward@wv.gov)

**Adkins, Sandra K**

---

**From:** Adkins, Sandra K  
**Sent:** Friday, May 27, 2016 11:42 AM  
**To:** 'john.w.peaper@cummins.com'  
**Cc:** McKeone, Beverly D; Martin, Thornton E  
**Subject:** WV DAQ Permit Application Status for Cummins Crosspoint, LLC; Fairmont Facility

**RE: Application Status  
CUMMINS CROSSPOINT, LLC  
Fairmont Facility  
Facility ID No. 049-00192  
Application No. R13-3322**

Mr. Peaper,

Your application for a construction permit for the Fairmont Facility was received by this Division on May 25, 2016, and was assigned to Lee Martin. The following items were not included in the initial application submittal:

**Original affidavit for Class I legal advertisement not submitted.**

**Application fee AND/OR additional application fees:**

*\*\$1,000 Construction, Modification, Relocation or Temporary Permit*

*\*\$2,500 NESHAP*

(Check 331126 in the amount of \$2,500.00 submitted with application. An additional \$1,000.00 is due. If you would like to pay with a Visa or MasterCard, please call Sandra Adkins at 304 926-0499 x1250 for contact information.)

*These items are necessary for the assigned permit writer to continue the 30-day completeness review.*

Within 30 days, you should receive a letter from Lee stating the status of the permit application and, if complete, given an estimated time frame for the agency's final action on the permit.

Any determination of completeness shall not relieve the permit applicant of the requirement to subsequently submit, in a timely manner, any additional or corrected information deemed necessary for a final permit decision.

Should you have any questions, please contact the assigned engineer, Lee Martin, at 304-926-0499, extension 1212.

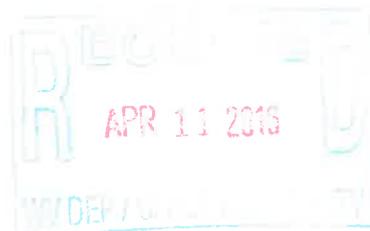




**CONFIDENTIAL: POTENTIAL SETTLEMENT DISCUSSIONS**

April 5, 2016

Mr. William Frederick Durham  
Director  
Division of Air Quality  
WV Department of Environmental Protection  
601 57th Street  
Charleston, WV 25304



**Re: Self-disclosure**

Dear Mr. Durham:

On behalf of Cummins Inc. (“Cummins”), and its subsidiary Cummins Crosspoint, LLC (“Crosspoint”), this letter discloses potential violations of state air permitting requirements at a Crosspoint, facility located at 25 Gateway Drive, Whitehall, WV 26554. This disclosure is made pursuant to the custom and practice of the West Virginia Department of Environmental Protection (WVDEP) with respect to self-disclosure.

Crosspoint is a North American distributor for Cummins. The Crosspoint facilities provide sales, parts, and services for Cummins’ engines. Cummins acquired 100% of the membership interests of Crosspoint via equity acquisition on August 3, 2015. Prior to this date, Cummins owned less than 50% of the membership interests of Crosspoint and was not involved in the day to day operations of Crosspoint.

After acquiring Crosspoint, Cummins Inc. has been conducting environmental compliance audits at all of the Crosspoint facilities. On March 21, 2016, Cummins identified the potential emission units set forth below may trigger permit requirement of WVDEP at the Crosspoint facility:

- A 100 kw diesel emergency generator which was installed on March 2012,
- A filter cleaner,
- Two parts washers, and
- Two used oil heaters, 0.275 mmbtu each.



Cummins is considering appropriate permit options for this facility. We believe that the custom and practice of WVDEP with respect to self-reporting are all potentially applicable to this disclosure and that the following factors should be considered by WVDEP as it considers this self disclosure:

**1. The discovery of these issues was identified through a systematic procedure.** The information contained in this disclosure was identified as a result of a system-wide audit performed upon acquisition of Cummins Crosspoint, LLC. As such, this evaluation constituted a systematic and proactive effort and discovery.

**2. This self-disclosure is being made completely voluntarily.** No legally mandated monitoring or sampling requirement, continuous emissions monitor, consent order, or settlement agreement requires this disclosure, and it is being made within nine months of becoming a new owner.

**3. Cummins is submitting this disclosure statement promptly.** The permitting deficiencies were identified no sooner than March 21, 2016, and this self-disclosure is being submitted within 21 days from that date.

**4. The discovery and disclosure of this situation has been identified and disclosed prior to any action by the government or a third party plaintiff.** No initiation of an agency enforcement action, notice of citizen's suit, filing of a complaint by a third party, or reporting of the violation by a whistle-blower has occurred.

**5. Cummins will correct and remediate these issues as soon as feasible.** Cummins will obtain any appropriate permits from WVDEP that may be necessary to cure any potential violation.

**6. Cummins will prevent occurrence of these types of potential violations in the future through its ongoing environmental compliance efforts.**

**7. No similar violation has been identified within the past three years at this facility.**

**8. These potential violations are not ones which resulted in serious actual harm or presented an imminent and substantial endangerment to human health and the environment; nor are they related to the specific terms of a judicial or administrative order or consent agreement.** It is not believed that any threats to human health of the environment have occurred as a result of the issues identified herein, particularly in light of the very low levels of actual emissions from this source.

**9. Cummins will fully cooperate with WVDEP in this matter.**

\* \* \*



**Crosspoint**

Thank you for receiving this submission. If you have any questions or need anything further, please call.

Sincerely,

A handwritten signature in blue ink that reads 'John Peaper'.

John Peaper  
HSE Manager  
Cummins Crosspoint, LLC  
317-240-1965