APC-2020/0163-C

ARCADIS Design & Consultancy for natural and built assets

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Division of Air Quality

Arcadis U.S., Inc.
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New Jersey 08844
Tel 908.526.1000
Fax 908.253.3295
www.arcadis-us.com

Division of Air Quality
Delaware Dept. of Natural Resources and Environmental Control
100 West Water St.
Ste. 6A
Dover, DE 19904

FEDERAL EXPRESS

Date:
April 22, 2020

Subject:
Application to Construct and Initial Notification
Comcast of New Castle County, LLC
2215 N. N. DuPont Highway
New Castle, Delaware
Facility ID Number: 1000300634

Email:
bridget.antczak@arcadis.com

Our ref:
30050872.00001

To whom it may concern:

On behalf of Comcast of New Castle County, LLC (Comcast), Arcadis U.S., Inc. (Arcadis) is hereby submitting an Application to Construct and an Initial Notification for ta 750 kW stand-by generator that was installed at the above referenced New Castle, Delaware facility in 2011. Pursuant to Delaware Department of Natural Resources of Environmental Control (DNREC) requirements, stand-by generators with a power output equal to or greater than 450 kW are required to submit Applications to Construct and Initial Notifications to the agency.

The following items are enclosed:

- Complete Application to Construct, Operate or Modify Stationary Sources, including Forms AQM-1, AQM-2, AQM-3.3, and AQM-5
- Manufacturer Specification Sheets
- Emissions Calculations for Criteria Pollutants and applicable HAPs - based upon EPA guidance, potential emissions from the emergency generator is based upon 500 hours of operations per year
- Complete Initial Notification
- Two (2) checks made out to the "State of Delaware" – one $165 check for the permit fees associated with the application and one $325 check for the advertisement fees associated with the application

The generator is a 750 kW Cummins Power DQCB. The engine is rated for 1,220 horsepower when operating in stand-by mode. The 2011 model year engine satisfies

EPA Tier 2 emission requirements for off-road engines. The engine was installed in March 2011.

As this is a stand-by generator, it regularly operates for maintenance and testing purposes. The unit does not run more than 52 hours per year (one hour per week) for maintenance and testing purposes. The generator is equipped with a totalizing hour meter on the engine, to record actual hours of usage. In addition, usage records are maintained at the facility.

Since the engine was manufactured after April 1, 2006, it is applicable to 40 CFR 60 Subpart IIII (New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines). The engine complies with the standard by using diesel fuel with a sulfur content less than 15 ppm and maintaining a log of all usages.

The facility has three (3) additional stand-by generators (two 1,000 kW units and one 750 kW unit) that remain in service.

If you have any questions or concerns regarding this application, please contact me at 908.685.7841 or via e-mail at bridget.antczak@arcadis.com.

Sincerely,

Bridget H. Antczak

Bridget H. Antczak
Certified Project Manager

BHA
Enclosure

Copies:
Tim Healy – Comcast
Scott Kustarz - Comcast

Administrative Information

One original and one copy of All Application Forms Should Be Mailed To:
Division of Air Quality
100 West Water Street, Suite 6A
Dover, DE 19904

All Checks Should Be Made Payable To:
State of Delaware

Company and Site Information

1. Company Name: **Comcast of New Castle County, LLC**
2. Company Mailing Address: **Attn: Robert Berkebile, 1354 Boot Rd.**
   City: **West Chester** State: **PA** Zip Code: **19380**
3. Site Name: **New Castle Headend**
4. Site Mailing Address: **Same As Company Mailing Address**
   (if different from above)
   City: State: Zip Code:
5. Physical Location of Site: **2215 N. DuPont Highway**
   (if different from above)
   City: **New Castle** State: **DE** Zip Code: **19720**
6. Site Billing Address: **Same As Company Mailing Address**
   (if different from above)
   City: State: Zip Code:
7. Air Quality Management Facility ID Number: **1000300634**
8. Site NAICS Code): **515210**
   (list all that apply
9. Site SIC Code: **4841**
   (list all that apply)
10. Site Location Coordinates: Latitude: 39 ° 42' 6.372"
    Longitude: 75 ° 33' 41.976"
11. Is the Facility New or Existing? ☐ NEW ☒ EXISTING

If the Facility is an Existing Facility, Complete the Rest of Question 11. If Not, Proceed to Question 12.

11.1. Does the Facility Have Active Air Permits? ☒ YES ☐ NO

12. Is this Application For New Equipment or a Modification to Existing Equipment?
    ☒ New Equipment
    ☐ Modification of Existing Equipment
    ☐ Other (Specify):

If the application is for the modification of existing equipment, complete the rest of Question 12. If not, proceed to Question 13.

Company and Site Information

12.1. Does the Equipment Have an Active Air Permit? ☐ YES ☐ NO

If the equipment has an active air permit, complete the rest of Question 12. If not, proceed to Question 13.

12.2. Permit Number of Existing Equipment:

13. Status of Equipment Being Applied For:
☒ Natural Minor Source
☐ Synthetic Minor Source
☐ Major Source
☐ Federally Enforceable Restrictions

14. Facility Status: ☒ Natural Minor Facility ☐ Synthetic Minor Facility ☐ Major Facility

If the facility is a Major Source, complete the rest of Question 14. If not, proceed to Question 15.

14.1. Responsible Official Name:

14.2. Responsible Official Title:

Contact Information

15. Name of Owner or Facility Manager: **Robert Berkebile**

16. Title of Owner or Facility Manager: **Director 2, Engineering Ops**

17. Permit Contact Name: **Robert Berkebile**

18. Permit Contact Title: **Director 2, Engineering Ops**

19. Permit Contact Telephone Number: **(610) 732-1529**

20. Permit Contact Fax Number:

21. Permit Contact E-Mail Address: **robert_berkebile@comcast.com**

22. Billing Contact Name: **Robert Berkebile**

23. Billing Contact Title: **Director 2, Engineering Ops**

24. Billing Contact Telephone Number: **(610) 732-1529**

25. Billing Contact Fax Number:

26. Billing Contact E-Mail Address: **robert_berkebile@comcst.com**

Proposed Construction and Operating Schedule

27. When Will the Proposed Construction/Installation/Modification Occur: 03/01/2011

28. Proposed Operating Schedule: **24** hours/day **7** days/week **52** weeks/year

28.1. Is There Any Additional Information Regarding the Operating Schedule? ☒ YES ☐ NO

If YES, complete the rest of Question 28. If NO, proceed to Question 29.

Proposed Construction and Operating Schedule

28.2. Describe the Additional Information: **This application is for an emergency generator. The generator will operate a maximum of one (1) hour per week for testing and maintenance and during emergencies that cause the facility to lose power.**

Coastal Zone Information

29. Is the Facility Located in the Coastal Zone? ☒ YES ☐ NO

If the facility is located in the Coastal Zone complete the rest of Question 29. If not, proceed to Question 30.

29.1. Is a Coastal Zone Permit Required for Construction or Operation of the Source Being Applied for? ☐ YES ☒ NO

Attach a copy of the Coastal Zone Determination if it has not been previously submitted

If a Coastal Zone Permit is required complete the rest of Question 29. If not, proceed to Question 30.

29.2. Has a Coastal Zone Permit Been Issued? ☐ YES ☐ NO

Attach a copy of the Coastal Zone Permit if it has not been previously submitted

Local Zoning Information

30. Parcel Zoning: **Industrial**

Attach Proof of Local Zoning if it has not been previously submitted

Application Information

31. Is the Appropriate Application Fee Attached? ☒ YES ☐ NO

32. Is the Advertising Fee Attached? ☒ YES ☐ NO

For help determining your application and advertising fees see:
http://www.dnrec.state.de.us/DNREC2000/Library/Fees/DE%20Permit%20Fees.htm

Attach the appropriate fees. Note that your Application will not be considered complete if the appropriate fees are not included.

33. Is a Cover Letter Describing the Process Attached? ☒ YES ☐ NO

Attach a brief cover letter describing your Application.

If the Facility is a New Facility complete Question 34. If not, proceed to Question35.

34. Is a Copy of the Applicant Background Information Questionnaire on Record at the Department? ☐ YES ☐ NO

If NO, complete the rest of Question 34. If YES, process to Question 35.

34.1 Is a Copy of the Applicant Background Information Questionnaire Attached? ☐ YES ☐ NO

For a copy of the Applicant Background Information Questionnaire see
http://www.dnrec.delaware.gov/services/Documents/Chapter79Form.pdf

Attach a copy of the Applicant Background Information Questionnaire if applicable.

35. Check Which Application Forms are Attached:

Application Information

☒ AQM-1	☐ AQM-3.4	☐ AQM-3.9	☐ AQM-3.14	☐ AQM-4.4	☐ AQM-4.9	☐ AQM-6
☒ AQM-2	☐ AQM-3.5	☐ AQM-3.10	☐ AQM-3.15	☐ AQM-4.5	☐ AQM-4.10	
☐ AQM-3.1	☐ AQM-3.6	☐ AQM-3.11	☐ AQM-4.1	☐ AQM-4.6	☐ AQM-4.11	
☐ AQM-3.2	☐ AQM-3.7	☐ AQM-3.12	☐ AQM-4.2	☐ AQM-4.7	☐ AQM-4.12	
☒ AQM-3.3	☐ AQM-3.8	☐ AQM-3.13	☐ AQM-4.3	☐ AQM-4.8	☒ AQM-5	

36. Check Which Documents are Attached:

- ☐ Coastal Zone Determination
- ☐ Coastal Zone Permit
- ☐ Proof of Local Zoning
- ☒ Application Fee
- ☒ Advertising Fee
- ☐ Applicant Background Information Questionnaire
- ☐ Claim of Confidentiality
- ☒ Manufacturer Specification(s)
- ☐ Material Safety Data Sheets (MSDSs)
- ☒ Supporting Calculations
- ☒ Descriptive Cover Letter
- ☒ Other (Specify): **Stationary Generator Initial Notification**

Confidentiality Information

37. Do You Consider Any of the Information Submitted With this Application Confidential? ☐ YES ☒ NO

For help on how to submit a confidentiality claim see http://regulations.delaware.gov/register/december2011/final/15%20DE%20Reg%20864%2012-01-11.htm

If a Claim of Confidentiality is made it MUST meet the requirements of Section 6 of DNREC's Freedom of Information ("FOIA") Regulation at the time the Application is submitted.

Signature Block

I, the undersigned, hereby certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all of its attachments as to the truth, accuracy, and completeness of this information. I certify based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete. By signing this form, I certify that I have not changed, altered, or deleted any portions of this application. I acknowledge that I cannot commence construction, alteration, modification or initiate operation until I receive written approval (i.e. permit, registration, or exemption letter) from the Department. I acknowledge that I may be required to perform testing of the equipment to receive construction or operation approval, and that if I do not receive approval to construct or operate that I may appeal the decision.

Tim Healy
Owner or Operator

4/2/2020
Date

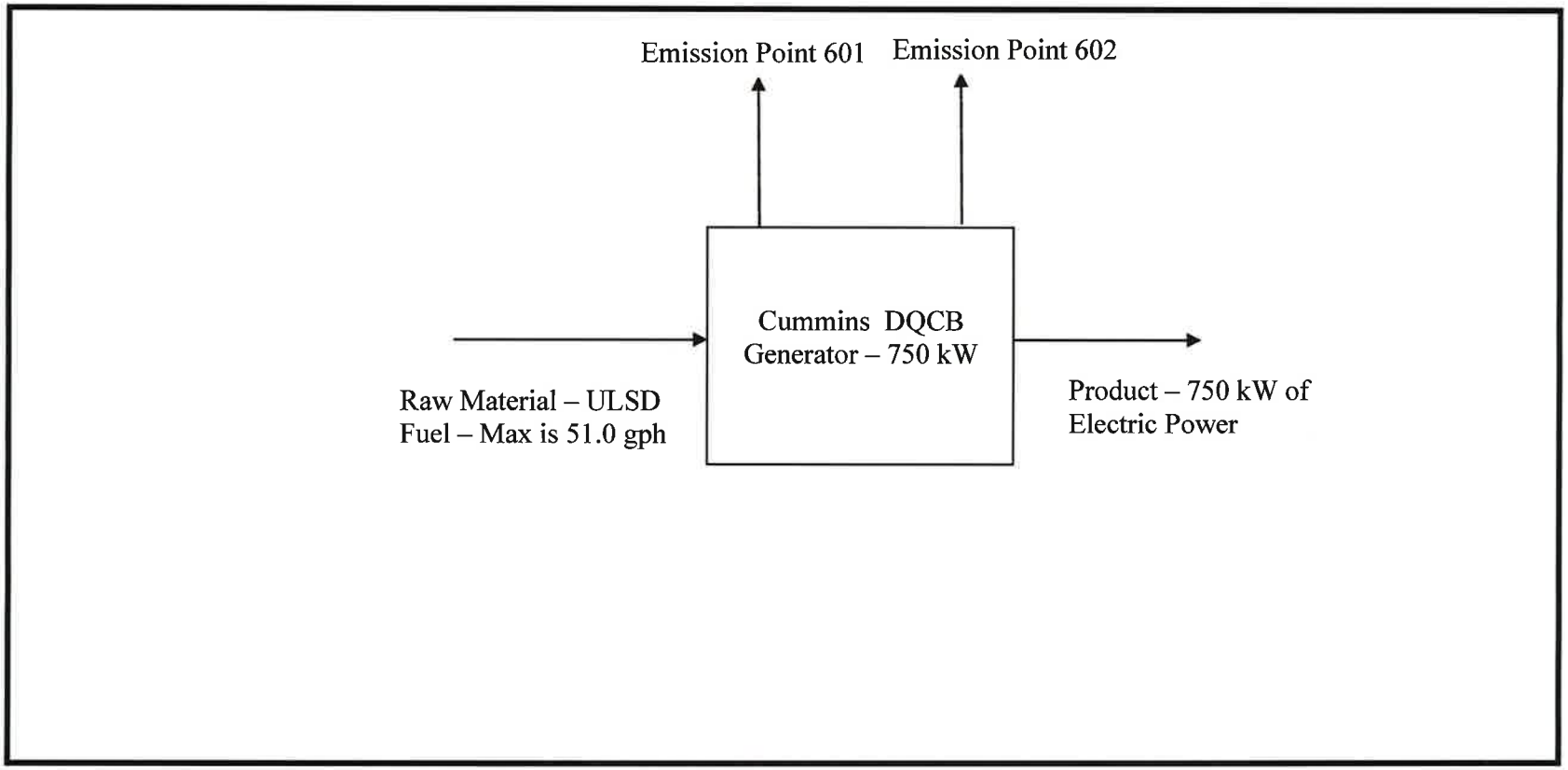
Signature of Owner or Operator

One Original and One Copy of All Application Forms Should Be Mailed To:
Division of Air Quality
100 W. Water Street, Suite 6A
Dover, Delaware 19904

All Checks Should Be Made Payable To:

Process Flow Diagram

Sketch the Process Flow Diagram for the equipment or process being applied for. Include each emission unit and control device (even existing emission units that will not be modified by this application). You may identify each emission unit with a simple shape. Label each emission unit and control device with a unique identifier. Show the relationship between each emission unit and/or control device by drawing arrows between them to indicate the flow of air pollutants. List which application forms are included for each emission unit or control device below the shape representing each emission unit or control device . See http://www.delaware.gov/reg2/default.htm for example Process Flow Diagrams for common processes. If you already have a Process Flow Diagram for the equipment or process being applied for, you may attach it to the application instead of using this form.



DNREC – Division of Air Quality
Application to Construct, Operate, or Modify Stationary Sources

Generator/Engine Application

If you are using this form electronically, press F1 at any time for help

General Information

1.	Facility Name: **Comcast - New Castle Headend**
2.	Equipment ID: **601**
3.	Manufacturer: **Cummins Power**
4.	Model: **DQCB**
5.	Serial Number: **C110196042**
6.	Maximum Power Rating of Engine: **1220** horsepower
7.	Standby Power Rating of Generator: **750** kilowatt
8.	Date of Manufacture: **03/2011**
9.	Installation Date: **03/20/2011**
10.	Is the Equipment Being Applied For a Generator or an Engine? ☒ Generator ☐ Engine
If the equipment is a Generator, complete the rest of Question 10. If not, proceed to Question 11.	
10.1.	Is the Generator Existing or New? ☒ Existing ☐ New
10.2.	Will the Generator Be Classified as an Emergency Generator or a Distributed Generator? ☒ Emergency ☐ Distributed
10.3.	Has an Initial Notification Pursuant to 7 **DE Admin. Code** 1144 Been Submitted for this Generator? ☐ YES ☒ NO
If NO, include a copy of the Initial Notification with this application.	
10.4.	Have the Emissions From the Generator Been Certified to Meet the Currently Applicable US EPA Non-Road Emission Standards? ☒ YES ☐ NO
If YES, attach a copy of the Manufacturer's Certification. If NO, attach copies of any/all of the following: any maintenance or operating requirements/instructions provided by the generator manufacturer; the type, or a description, of any emission control equipment use; and/or emissions test data for the generator (such as a manufacturer's technical data sheet), any supporting documentation for any emission control equipment used, any supporting calculations, any quality control or assurance information, and any other information needed to demonstrate compliance with the requirements. Proceed to Question 11.	
11.	Primary Fuel: ☐ Natural Gas ☒ Diesel ☐ Propane ☐ Biodiesel ☐ Other (specify):
11.1.	Maximum Annual Primary Fuel Consumption: **25,050 (based on 500 gal/yr) gal**
11.2.	Heat Content of Primary Fuel: **137,000 BTU/gal**
11.3.	Maximum Firing Rate: **51.0 gallons/hr**
11.4.	Percent Sulfur of Primary Fuel: **0.0015** %
12.	Secondary Fuel: ☐ Natural Gas ☐ Diesel ☐ Propane ☐ Biodiesel ☐ Other (specify):

General Information

12.1.	Maximum Annual Secondary Fuel Consumption: **MMCF**
12.2.	Heat Content of Secondary Fuel: **BTU/CF**
12.3.	Maximum Firing Rate: **MMCF/hr**
12.4.	Percent Sulfur of Secondary Fuel: %
13.	Is SCR/NSCR/SNCR/Ammonia Injection Used: ☐ YES ☒ NO

Stack Information

14.	How Does the Process Equipment Vent: *(check all that apply)* ☒ Directly to the Atmosphere ☐ Through a Control Device Covered by Forms AQM-4.1 through 4.12
If any of the process equipment vents directly to the atmosphere proceed to Question 15. If the process equipment vents through a control device, provide the stack parameters on the control device form and proceed to Question 16.	
15.	Emission Point Name: **750 kW Generator #2 Em Pt 601**
15.1.	Stack Height Above Grade: **13 feet**
15.2.	Stack Exit Diameter: **1 feet** *(Provide Stack Dimensions If Rectangular Stack)*
15.3.	Is a Stack Cap Present? ☒ YES ☐ NO
15.4.	Stack Configuration: ☒ Vertical ☐ Horizontal ☐ Downward-Venting *(check all that apply)* ☐ Other (Specify):
15.5.	Stack Exit Gas Temperature: **888 °F**
15.6.	Stack Exit Gas Flow Rate: **5358 ACFM**
15.7.	Distance to Nearest Property Line: **45 ft**
15.8.	Describe Nearest Obstruction: **Building**
15.9.	Height of Nearest Obstruction: **16 ft**
15.10.	Distance to Nearest Obstruction: **8 ft**
15.11.	Are Stack Sampling Ports Provided? ☐ YES ☒ NO

Monitoring Information

16.	Will Emissions Data be Recorded by a Continuous Emission Monitoring System? ☐ YES ☒ NO
If Yes, Attach a Copy of the Continuous Emission Monitoring System Manufacturer's Specification Sheets	
If YES, complete the rest of Question 16. If NO, proceed to Question 17.	
16.1.	Pollutants Monitored: ☐ VOCs ☐ HAPs ☐ PM ☐ PM_{10} ☐ $PM_{2.5}$ ☐ NO_X ☐ SO_X ☐ Metals ☐ Other (Specify):
16.2.	Describe the Continuous Emission Monitoring System:

Monitoring Information
16.3. Manufacturer:
16.4. Model:
16.5. Serial Number:
16.6. Will Multiple Emission Units Be Monitored at the Same Point? ☐ YES ☐ NO
If YES, complete the rest of Question 16. If NO, proceed to Question 17.
16.7. Emission Units Monitored:
16.8. Will More Than One Emission Unit be Emitting From the Combined Point At Any Time? ☐ YES ☐ NO
If YES, complete the rest of Question 15. If NO, proceed to Question 17.
16.9. Emission Units Emitting Simultaneously:

Visible Emissions Monitoring Information
For Primary Fuel
17. Proposed Technique Used to Monitor Visible Emissions: ☐ Opacity Monitor (COM) ☐ Manual (Method 9) ☐ Manual (Method 22) ☒ Other (Describe): **5 minute observation**
If an Opacity Monitor (COM) is used, complete the rest of Question 17. If not, proceed to Question 18.
17.1. Describe the Continuous Opacity Monitoring System:
17.2. Manufacturer:
17.3. Model:
17.4. Serial Number:
18. Proposed Frequency of Opacity Monitoring: **Quarterly, results will be logged**
For Secondary Fuel. If no Secondary Fuel is used, proceed to Question 20.
19. Proposed Technique Used to Monitor Visible Emissions: ☐ Opacity Monitor (COMs) ☐ Manual (Method 9) ☐ Manual (Method 22) ☐ Other (Describe):
If an Opacity Monitor (COMs) is used, complete the rest of Question 19. If not, proceed to Question 20.
19.1. Describe the Continuous Opacity Monitoring System:
19.2. Manufacturer:
19.3. Model:
19.4. Serial Number:
20. Proposed Frequency of Opacity Monitoring:

Voluntary Emission Limitation Request Information

21. Are You Requesting Any Voluntary Emission Limitations to Avoid Major Source Status, Minor New Source Review, MACT, NSPS, etc.? ☐ YES ☒ NO

If YES, complete the rest of Question 21. If NO, proceed to Question 22.

21.1. Describe Any Proposed Emission Limitations:

Voluntary Operating Limitation Request Information

22. Are You Requesting Any Voluntary Operating Limitations to Avoid Major Source Status, Minor New Source Review, MACT, NSPS, etc.? ☐ YES ☒ NO

If YES, complete the rest of Question 22. If NO, proceed to Question 23.

22.1. Describe Any Proposed Operating Limitations:

Additional Information

23. Is There Any Additional Information Pertinent to this Application? ☒ YES ☐ NO

If YES, complete the rest of Question 23.

22.1. Describe: **This 2011 model year engine satisfies Tier 2 emission requriements. The generator is only used to provide stand-by electrical power to avoid an interruption in operations. As this is a stand-by generator, it regularly operates for testing and maintenance purposes. The generator is equipped with a totalizing meter on the engine, to record actual hours of usage. In addition, usage records are maintained at the facility. Since the engine was manufactured after April 1, 2006, it is applicable to 40 CFR 60 Subpart IIII (NSPS for Stationary Combustion Ignition Internal Combustion Engines). The engine complies by using diesel fuel with a sulfur content less than 15 ppm and logging all uses of the generator.**

Emissions Information Application

If you are using this form electronically, press F1 at any time for help

Process Information

1.	Number of Individual Pieces of Process Equipment in Process: **1**
2.	Number of Individual Control Devices in Process: **0**

Emissions Information for First Emission Point/Stack

3.	Emission Point Name: **750 kW Generator #2**
4.	Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: **601**
5.	Pollutant Emissions

If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.

	Pollutant Name (Specify VOCs and HAPs Individually in 5.10 through 5.18)	CAS Number (Not required for 5.1 through 5.10)	Maximum Uncontrolled Emission Rate at Design Capacity	Maximum Controlled Emission Rate at Design Capacity	Annual Potential to Emit (PTE)	Requested Permitted Annual Emissions
5.1.	Particulate Matter (PM)		**0.403 lbs/hour**	**lbs/hour**	**0.101** tons/year	**0.101** tons/year
5.2.	PM_{10}		**0.403 lbs/hour**	**lbs/hour**	**0.101** tons/year	**0.101** tons/year
5.3.	$PM_{2.5}$		**0.403 lbs/hour**	**lbs/hour**	**0.101** tons/year	**0.101** tons/year
5.4.	Sulfur Oxides (SO_X)		**0.015 lbs/hour**	**lbs/hour**	**0.004** tons/year	**0.004** tons/year
5.5.	Nitrogen Oxides (NO_X)		**12.90 lbs/hour**	**lbs/hour**	**3.225** tons/year	**3.225** tons/year
5.6.	Carbon Monoxide (CO)		**6.99 lbs/hour**	**lbs/hour**	**1.747** tons/year	**1.747** tons/year
5.7.	Total Volatile Organic Compounds (VOCs)		**12.90 lbs/hour**	**lbs/hour**	**3.225** tons/year	**3.225** tons/year
5.8.	Total Hazardous Air Pollutants (HAPs)		**0.0104 lbs/hour**	**lbs/hour**	**0.0026** tons/year	**0.0026** tons/year

Emissions Information for First Emission Point/Stack

5.9. CO_2		**1139.25 lbs/hour**	**lbs/hour**	**284.81** tons/year	**284.81** tons/year
5.10. CO_{2e}		**1143.16 lbs/hour**	**lbs/hour**	**285.79** tons/year	**285.79** tons/year
5.11.		**lbs/hour**	**lbs/hour**	tons/year	tons/year
5.12.		**lbs/hour**	**lbs/hour**	tons/year	tons/year
5.13.		**lbs/hour**	**lbs/hour**	tons/year	tons/year
5.14.		**lbs/hour**	**lbs/hour**	tons/year	tons/year
5.15.		**lbs/hour**	**lbs/hour**	tons/year	tons/year

6. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:

Attach the Basis of Determination or Calculations for each Emission Rate provided above.

Emissions Information for Second Emission Point/Stack

7. Emission Point Name:

8. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack:

9. Pollutant Emissions

If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.

Pollutant Name (Specify VOCs and HAPs Individually in 9.10 through 9.18)	CAS Number (Not required for 9.1 through 9.10)	Maximum Uncontrolled Emission Rate at Design Capacity	Maximum Controlled Emission Rate at Design Capacity	Annual Potential to Emit (PTE)	Requested Permitted Annual Emissions
9.1. Particulate Matter (PM)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.2. PM_{10}		**lbs/hour**	**lbs/hour**	tons/year	tons/year

Emissions Information for Second Emission Point/Stack

9.3.	$PM_{2.5}$		**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.4.	Sulfur Oxides (SO_X)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.5.	Nitrogen Oxides (NO_X)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.6.	Carbon Monoxide (CO)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.7.	Total Volatile Organic Compounds (VOCs)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.8.	Total Hazardous Air Pollutants (HAPs)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.9.	CO_2		**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.10.	CO_{2e}		**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.11.			**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.12.			**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.13.			**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.14.			**lbs/hour**	**lbs/hour**	tons/year	tons/year
9.15.			**lbs/hour**	**lbs/hour**	tons/year	tons/year

10. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:

Attach the Basis of Determination or Calculations for each Emission Rate provided above.

Emissions Information for Third Emission Point/Stack

11. Emission Point Name:

12. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack:

13. Pollutant Emissions

Emissions Information for Third Emission Point/Stack

If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.

	Pollutant Name (Specify VOCs and HAPs Individually in 13.10 through 13.18)	CAS Number (Not required for 13.1 through 13.10)	Maximum Uncontrolled Emission Rate at Design Capacity	Maximum Controlled Emission Rate at Design Capacity	Annual Potential to Emit (PTE)	Requested Permitted Annual Emissions
13.1.	Particulate Matter (PM)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.2.	PM_{10}		**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.3.	$PM_{2.5}$		**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.4.	Sulfur Oxides (SO_X)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.5.	Nitrogen Oxides (NO_X)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.6.	Carbon Monoxide (CO)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.7.	Total Volatile Organic Compounds (VOCs)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.8.	Total Hazardous Air Pollutants (HAPs)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.9.	CO_2		**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.10.	CO_{2e}		**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.11.			**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.12.			**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.13.			**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.14.			**lbs/hour**	**lbs/hour**	tons/year	tons/year
13.15.			**lbs/hour**	**lbs/hour**	tons/year	tons/year

14. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:

Emissions Information for Third Emission Point/Stack

Attach the Basis of Determination or Calculations for each Emission Rate provided above.

Emissions Information for Fourth Emission Point/Stack

15. Emission Point Name:

16. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack:

17. Pollutant Emissions

If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.

	Pollutant Name (Specify VOCs and HAPs Individually in 17.10 through 17.18)	CAS Number (Not required for 17.1 through 17.10)	Maximum Uncontrolled Emission Rate at Design Capacity	Maximum Controlled Emission Rate at Design Capacity	Annual Potential to Emit (PTE)	Requested Permitted Annual Emissions
17.1.	Particulate Matter (PM)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.2.	PM_{10}		**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.3.	$PM_{2.5}$		**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.4.	Sulfur Oxides (SO_X)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.5.	Nitrogen Oxides (NO_X)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.6.	Carbon Monoxide (CO)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.7.	Volatile Organic Compounds (VOCs)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.8.	Total Hazardous Air Pollutants (HAPs)		**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.9.	CO_2		**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.10.	CO_{2e}		**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.11.			**lbs/hour**	**lbs/hour**	tons/year	tons/year
17.12.			**lbs/hour**	**lbs/hour**	tons/year	tons/year

Emissions Information for Fourth Emission Point/Stack					
17.13.		lbs/hour	lbs/hour	tons/year	tons/year
17.14.		lbs/hour	lbs/hour	tons/year	tons/year
17.15.		lbs/hour	lbs/hour	tons/year	tons/year
18. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:					
Attach the Basis of Determination or Calculations for each Emission Rate provided above.					
If there are more than four Emission Points/Stacks, attach additional copies of this form as needed.					

Overall Process Emissions

19. Pollutant Emissions

If more than 15 pollutants are emitted from this Process, attach additional copies of this page as needed.

	Pollutant Name (Specify VOCs and HAPs Individually in 19.10 through 19.18)	CAS Number (Not required for 19.1 through 19.10)	Maximum Uncontrolled Emission Rate at Design Capacity	Maximum Controlled Emission Rate at Design Capacity	Annual Potential to Emit (PTE)	Requested Permitted Annual Emissions
19.1.	Particulate Matter (PM)		**0.403 lbs/hour**	**lbs/hour**	**0.101** tons/year	**0.101** tons/year
19.2.	PM_{10}		**0.403 lbs/hour**	**lbs/hour**	**0.101** tons/year	**0.110** tons/year
19.3.	$PM_{2.5}$		**0.403 lbs/hour**	**lbs/hour**	**0.101** tons/year	**0.101** tons/year
19.4.	Sulfur Oxides (SO_X)		**0.015 lbs/hour**	**lbs/hour**	**0.004** tons/year	**0.004** tons/year
19.5.	Nitrogen Oxides (NO_X)		**12.90 lbs/hour**	**lbs/hour**	**3.225** tons/year	**3.225** tons/year
19.6.	Carbon Monoxide (CO)		**6.99 lbs/hour**	**lbs/hour**	**1.747** tons/year	**1.747** tons/year
19.7.	Total Volatile Organic Compounds (VOCs)		**12.90 lbs/hour**	**lbs/hour**	**3.225** tons/year	**3.225** tons/year
19.8.	Total Hazardous Air Pollutants (HAPs)		**0.204 lbs/hour**	**lbs/hour**	**0.0026** tons/year	**0.0026** tons/year

Overall Process Emissions

19.9. CO_2		**1139.25 lbs/hour**	**lbs/hour**	**284.81** tons/year	**284.81** tons/year
19.10. CO_{2e}		**1143.16 lbs/hour**	**lbs/hour**	**285.79** tons/year	**285.79** tons/year
19.12.		**lbs/hour**	**lbs/hour**	tons/year	tons/year
19.13.		**lbs/hour**	**lbs/hour**	tons/year	tons/year
19.14.		**lbs/hour**	**lbs/hour**	tons/year	tons/year
19.15.		**lbs/hour**	**lbs/hour**	tons/year	tons/year

20. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:

Attach the Basis of Determination or Calculations for each Emission Rate provided above.

Minor New Source Review Information

21. Does the Process Have the Potential to Emit More Than Five Tons Per Year of Any Pollutant? ☐ YES ☒ NO

22. Is the Source New or Existing? ☐ NEW ☒ EXISTING
See Question 11 of AQM-1

If the Process has the Potential to Emit more than five tons per year of any pollutant, and is a New Source, a Control Technology Analysis pursuant to Regulation No. 1125 Section 4 must be conducted and attached to this application.

Major New Source Review Information

23. Does the Process Have the Potential to Emit More Than the Significance Level for Any Pollutant? *(Check All That Apply)*

- ☐ Greater Than 25 Tons Per Year of Particulate Matter (PM)
- ☐ Greater Than 15 Tons Per Year of PM_{10}
- ☐ Greater Than 10 Tons Per Year of $PM_{2.5}$
- ☐ Greater Than 40 Tons Per Year of Sulfur Dioxide(SO_2)
- ☐ Greater Than 25 Tons Per Year of Nitrogen Oxides (NO_X) in New Castle and Kent County
- ☐ Greater Than 100 Tons Per Year of Nitrogen Oxides (NO_X) in Sussex County
- ☐ Greater Than 100 Tons Per Year of Carbon Monoxide (CO)
- ☐ Greater Than 25 Tons Per Year of Total Volatile Organic Compounds (VOCs) in New Castle and Kent County
- ☐ Greater Than 50 Tons Per Year of Total Volatile Organic Compounds (VOCs) in Sussex County
- ☐ Greater Than 75,000 Tons Per Year of Equivalent Carbon Dioxide (CO_{2e})

If the Process has the Potential to Emit greater than any of the amounts listed above 7 DE Admin. Code 1125 Sections 2 and/or 3 apply. Contact the Department at (302) 323-4542 or (302) 739-9402 for additional information

Additional Information

24. Is There Any Additional Information Pertinent to this Application? ☐ YES ☒ NO

If YES, complete the rest of Question 24.

24.1. Describe:

Submit by Email | Print Form

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DIVISION OF AIR QUALITY

STATIONARY GENERATOR INITIAL NOTIFICATION

The submittal of this information to the Department satisfies the "Initial Notification" requirement of 7 DE Admin Code 1144, Section 1.4. Please submit a separate information form for each generator in order to meet the Initial Notification requirement.

Submit the completed Initial Notification by doing one of the following:
1. Press the "**Submit by Email**" button above or below, and follow the directions given;
2. Print completed form, and fax a copy to (**302) 739-3106**; or
3. Print completed form, and mail the Initial Notification to...

Division of Air Quality, Attention: Reg. 1144 Initial Notification
State Street Commons, 100 West Water St, Suite 6A,
Dover, DE 19904

For information about 7 DE Admin Code 1144, "Control of Stationary Generator Emissions," or for help filling out this form, call the Division of Air Quality at:

(302) 739-9402

1. GENERATOR OWNER INFORMATION

First Name: Robert M.I. : Last Name: Berkebile

Company Name (if applicable): Comcast of New Castle County, LLC

Address: 13554 Boot Rd.

City: West Chester State: PA Zip Code: 19380

Telephone Number: (610) 732-1529

2. GENERATOR INFORMATION

Physical address of generator: 2215 N. DuPont Highway

City: New Castle State: DE Zip Code: 19720

Coordinates (if known): Latitude: 39.70177 Longitude: -75.57156
(as decimal degrees)

Make: Cummins Power

Model: DQCB

Year of Manufacture: 2011

Serial Number: C110196042

Standby Power Rating (kW): 750

Prime Power Rating (kW): 680

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DIVISION OF AIR QUALITY

STATIONARY GENERATOR INITIAL NOTIFICATION (Page 2)

2. GENERATOR INFORMATION (continued)

Engine Horsepower (hp): 1220

Fuel Type: Ultra Low Sulfur Diesel

Please list or describe any emissions control devices installed on the generator (*i.e.*, any method, process, or equipment which removes or reduces air contaminants discharged into the atmosphere).

None

3. DATE OF INSTALLATION 03/20/2011

This is the date which the emplacement of the generator began, or will begin. See 7 DE Admin Code 1144 for a complete definition of "installation."

4. GENERATOR CLASSIFICATION
(Please choose one)

☒ Emergency Generator ☐ Distributed Generator

An emergency generator may operate only during an emergency (e.g., a power outage, or a significant voltage or frequency deviation), for maintance, or for testing. A distributed generator may operate for these purposes, as well as for any other non-emergency purpose. See 7 DE Admin Code 1144 for complete definitions of these terms.

5. SIGNATURE OF GENERATOR OWNER

I, the undersigned, hereby certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and any of its attachments as to the truth, accuracy, and completeness of this information. I certify based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete. By signing this form, I certify that I have not changed, altered, or deleted any portions of this notification.

Signature of Generator Owner — Date: 4/21/2020

Submit by Email Print Form

Comcast - 2215 N DuPont Highway, New Castle, DE - Cummins DQCB (2011 model year)

Cummins DQCB Diesel-Fired Emergency Generator

Engine Output
Horsepower (hp)

1220.0

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.00033	0.0003	0.000012	0.0106	0.0106	0.0057
Potential Emissions in lbs/hr	0.403	0.403	0.015	12.90	12.90	6.99
Potential Emissions in tons/yr (52 hrs/yr)	0.010	0.010	0.000	0.335	0.335	0.182
Limited Potential Emission in tons/yr*	0.101	0.101	0.004	3.225	3.225	1.747

Methodology
Potential Hourly Throughput (hp-hr/hr) = hp * 1hr
Potential Daily Throughput (hp-hr/day) = hp * 24 hrs/day
Potential Annual Throughput (hp-hr/yr) = hp * 500 hrs/yr
Emission Factors are based upon Tier 2 (for engines > 750 HP). SO2 Emission Factor from AP42 (Supplement B 10/96), Table 3.4-1
Emission (tons/yr) = [Potential Throughput x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)
Sulfur content of fuel is 15 ppm (ULSD)

Heat Input Rating
(MMBtu/hr)
6.987

Pollutant	Emission Factor (lbs/MMBtu)	Potential Emissions (lbs/hr)	Potential Emissions 52 hrs/yr (tons/yr)	Potential Emissions 500 hrs/yr (tons/year)
Benzene	7.76E-04	0.0054	0.0001	0.0014
Toluene	2.81E-04	0.0020	0.0001	0.0005
Xylenes	1.93E-04	0.0013	0.0000	0.0003
Acetaldehyde	2.52E-05	0.0002	0.0000	0.0000
Acrolein	7.88E-06	0.0001	0.0000	0.0000
Naphthalene	1.30E-04	0.0009	0.0000	0.0002
Formaldehyde	7.89E-05	0.0006	0.0000	0.0001
TOTAL		**0.0104**	**0.0003**	**0.0026**

Methodology
Same method as above.
Emission factors are from AP42 Table 3.4-3 and Table 3.4-4 (October 1996)

Pollutant	Emission Factor (kg/MMBtu)	Potential Emissions (lbs/hr)	Potential Emissions 52 hrs/yr (tons/yr)	Potential Emissions 500 hrs/yr (tons/year)
CO_2	73.96	1139.25	29.62	284.81
CH_4	0.003	0.05	0.00	0.01
N_2O	0.0006	0.01	0.00	0.00
CO_2e		1143.16	29.72	285.79

Methodology
EPA Emission Factors for Greenhouse Gas Inventories. Assuming Distillate Oil #2 (modified 03/09/18). Global Warming Potential of CH_4 is 25 and N_2O is 298.

Specification sheet

Diesel generator set QSK23 series engine

600 kW - 800 kW 60 Hz
Standby

Description

Cummins® commercial generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary Standby and Prime Power applications.

Features

Cummins heavy-duty engine - Rugged 4-cycle, industrial diesel delivers reliable power, low emissions and fast response to load changes.

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.

Permanent Magnet Generator (PMG) - Offers enhanced motor starting and fault clearing short circuit capability.

Circuit breakers - Option for manually-and/or electrically-operated circuit breakers.

Control system - The PowerCommand® 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.

Peer-to-peer paralleling - For applications where two or more generators with PowerCommand 3.3 control can be combined with an electrically operated circuit breaker and a combination of transfer switch(s).

Cooling system - Standard integral set-mounted radiator system, designed and tested for rated ambient temperatures, simplifies facility design requirements for rejected heat.

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.

	Standby rating	Prime rating	Continuous rating	Data sheets
Model	60 Hz kW (kVA)	60 Hz kW (kVA)	60 Hz kW (kVA)	60 Hz
DQCA	600 (750)	545 (681)		D-3352
DQCB	750 (938)	680 (850)		D-3353
DQCC	800 (1000)	725 (906)		D-3354

Generator set specifications

Governor regulation class	ISO8528 Part 1 Class G3
Voltage regulation, no load to full load	± 0.5%
Random voltage variation	± 0.5%
Frequency regulation	Isochronous
Random frequency variation	± 0.25%
Radio frequency emissions compliance	IEC 61000-4-2: Level 4 electrostatic discharge IEC 61000-4-3: Level 3 radiated susceptibility

Engine specifications

Bore	169.9 mm (6.69 in)
Stroke	169.9 mm (6.69 in)
Displacement	23.15 liters (1413 in^3)
Configuration	Cast iron, in line 6 cylinder
Battery capacity	1400 amps minimum at ambient temperature of 0 °C to 10 °C (32 °F to 50 °F)
Battery charging alternator	35 amps
Starting voltage	24 volt, negative ground
Fuel system	Direct injection: number 2 diesel fuel, fuel filter, automatic electric fuel shutoff
Fuel filter	Spin-on fuel filters with water separator
Air cleaner type	Dry replaceable element with restriction indicator
Lube oil filter type(s)	Fleet guard dual venturi spin-on, combination full flow and bypass filters
Standard cooling system	High ambient radiator

Alternator specifications

Design	Brushless, 4 pole, drip proof, revolving field
Stator	2/3 pitch
Rotor	Single bearing flexible disc
Insulation system	Class H
Standard temperature rise	125 °C Standby at 40 °C ambient
Exciter type	Permanent Magnet Generator (PMG)
Phase rotation	A (U), B (V), C (W)
Alternator cooling	Direct drive centrifugal blower fan
AC waveform Total Harmonic Distortion (THDV)	< 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 Line-Neutral/Line-Line

- 110/190
- 115/200
- 120/208
- 127/220
- 139/240
- 220/380
- 230/380
- 240/416
- 255/440
- 277/480
- 347/600

Note: Consult factory for other voltages.

Generator set options and accessories

Engine

- 208/240/480 V coolant heater for ambient above 4.5 °C (40 °F)
- Fuel/water separator
- Heavy duty air cleaner

Alternator

- 80 °C rise
- 105 °C rise
- 125 °C rise
- 120/240 V anti-condensation heater
- Temperature sensor - alternator bearing RTD

Control panel

- PC3.3
- PC3.3 with MLD
- 120/240 V 100 W control anti-condensation heater
- Ground fault indication
- Remote fault signal package
- Run relay package
- Run time display

Cooling system

- 50 °C ambient

Generator set options and accessories (continued)

Exhaust system

- Industrial grade exhaust silencer (12 to 18 dBA)
- Residential grade exhaust silencer (18 to 25 dBA)
- Critical grade exhaust silencer (25 to 35 dBA)
- Super critical exhaust silencer (35 to 45 dBA)

Generator set

- AC entrance box
- Battery
- Battery rack with hold-down
- Circuit breaker - set mounted
- Remote annunciator panel
- Spring isolators

- 2 year warranty
- 5 year warranty
- 10 year major components warranty

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

PowerCommand 2.3 – control system

PowerCommand 2.3 control - An integrated generator set control system providing voltage regulation, engine protection, generator protection, operator interface, and isochronous governing (optional).

Control - Provides battery monitoring and testing features and smart-starting control system.

InPower™ - PC based service tool available for detailed diagnostics.

PCCNet RS485 - Network interface (standard) to devices such as remote annunciator for NFPA 110 applications.

Control boards - Potted for environmental protection.

Ambient operation - Suitable for operation in ambient temperatures from -40 °C to +70 °C and altitudes to 13,000 feet (5000 meters).

Prototype tested - UL, CSA, and CE compliant.

AC protection

- AmpSentry protective relay
- Over current warning and shutdown
- Over and under voltage shutdown
- Over and under frequency shutdown
- Over excitation (loss of sensing) fault
- Field overload
- Overload warning
- Reverse kW shutdown
- Reverse Var shutdown
- Short circuit protection

Engine protection

- Overspeed shutdown
- Low oil pressure warning and shutdown
- High coolant temperature warning and shutdown
- Low coolant level warning or shutdown
- Low coolant temperature warning
- High, low and weak battery voltage warning
- Fail to start (over crank) shutdown
- Fail to crank shutdown
- Redundant start disconnect
- Cranking lockout
- Sensor failure indication
- Low fuel level warning or shutdown
- Fuel-in-rupture-basin warning or shutdown

Operator/display panel

- Manual off switch
- 128 x 128 alpha-numeric display with push button access for viewing engine and alternator data and providing setup, controls and adjustments (English or international symbols)
- LED lamps indicating generator set running, not in auto, common warning, common shutdown, manual run mode and remote start
- Suitable for operation in ambient temperatures from -20 °C to +70 °C

Alternator data

- Line-to-Neutral AC volts
- Line-to-Line AC volts
- 3-phase AC current
- Frequency
- kVA, kW, power factor

Engine data

- DC voltage
- Lube oil pressure
- Coolant temperature

Other data

- Generator set model data
- Start attempts, starts, running hours
- Fault history
- RS485 Modbus® interface
- Data logging and fault simulation (requires InPower service tool)
- Total kilowatt hours
- Load profile

Digital governing (optional)

- Integrated digital electronic isochronous governor
- Temperature dynamic governing

Digital voltage regulation

- Integrated digital electronic voltage regulator
- 3-phase Line-to-Line sensing
- Configurable torque matching
- Fault current regulation under single or three phase fault conditions

Control functions

- Time delay start and cool down
- Glow plug control (some models)
- Cycle cranking
- PCCNet interface
- (4) Configurable inputs
- (4) Configurable outputs
- Remote emergency stop
- Battle short mode
- Load shed
- Real time clock with exerciser
- Derate

Options

- Auxiliary output relays (2)
- 120/240 V, 100 W anti-condensation heater
- Remote annunciator with (3) configurable inputs and (4) configurable outputs
- PMG alternator excitation
- PowerCommand for Windows® remote monitoring software (direct connect)
- AC output analogue meters
- PowerCommand 2.3 and 3.3 control with AmpSentry protection

For further detail on PC 2.3, see document S-1569.
For further detail on PC 3.3, see document S-1570.

Ratings definitions

Emergency Standby Power (ESP):

Applicable for supplying power to varying electrical loads 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):

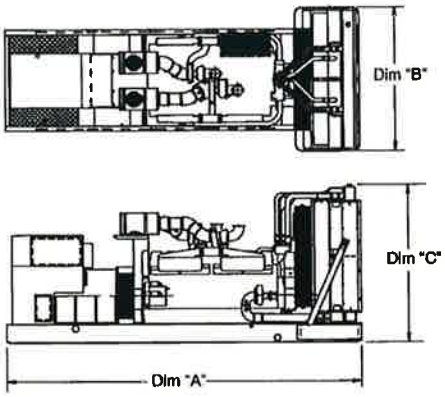
Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

Prime Power (PRP):

Applicable for supplying power to varying electrical loads 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

Dimensions and weights with standard cooling system

Model	Dim 'A' (mm) (in.)	Dim 'B' (mm) (in.)	Dim 'C' (mm) (in.)	Set weight* dry (kg) (lbs)	Set weight* wet (kg) (lbs)
DQCA	4395.4 (173)	1855.5 (73)	2065.7 (81)	6075 (13395)	6337 (13973)
DQCB	4395.4 (173)	1855.5 (73)	2065.7 (81)	6075 (13395)	6337 (13973)
DQCC	4395.4 (173)	1855.5 (73)	2065.7 (81)	6075 (13395)	6337 (13973)

Dimensions and weights with optional cooling system with seismic feature codes L228-2 and/or L225-2

Model	Dim 'A' (mm) (in.)	Dim 'B' (mm) (in.)	Dim 'C' (mm) (in.)	Set weight* dry (kg) (lbs)	Set weight* wet (kg) (lbs)
DQCA	4395.4 (173)	1715 (68)	2060.1 (81.1)	6377 (14061)	6518 (14372)
DQCB	4395.4 (173)	1715 (68)	2060.1 (81.1)	6377 (14061)	6518 (14372)
DQCC	4395.4 (173)	1715 (68)	2060.1 (81.1)	6377 (14061)	6518 (14372)

* 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.

	This generator set is designed in facilities certified to ISO 9001 and manufactured in facilities certified to ISO 9001 or ISO 9002.		The generator set is available listed to UL 2200 for all 60 Hz low voltage models, Stationary Engine Generator Assemblies. The PowerCommand control is Listed to UL 508 - Category NITW7 for U.S. and Canadian usage. Circuit breaker assemblies are UL 489 Listed for 100% continuous operation and also UL 869A Listed Service Equipment.
	The Prototype Test Support (PTS) program verifies the performance integrity of the generator set design. Cummins products bearing the PTS symbol meet the prototype test requirements of NFPA 110 for Level 1 systems.	**U.S. EPA**	Engine certified to Stationary Emergency U.S. EPA New Source Performance Standards, 40 CFR 60 subpart IIII Tier 2 exhaust emission levels. U.S. applications must be applied per this EPA regulation.
	All low voltage models are CSA certified to product class 4215-01.	**International Building Code**	The generator set package is available certified for seismic application in accordance with the following International Building Code: IBC2000, IBC2003, IBC2006, IBC2009, and IBC2012.

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.

For more information contact your local Cummins distributor or visit power.cummins.com

Our energy working for you.™