

## RAINWISE ENVIRONMENTAL SOLUTIONS, LLC.

54 RUMFORD DR.

MILFORD, DE 19963

WWW.RAINWISEENVIRO.COM

January 22, 2021

Mr. Phanuel C.K. Bediako, Ph.D.  
 Environmental Engineer  
 DNREC-Division of Air Quality  
 State Street Commons  
 100 W. Water Street, Suite 6A  
 Dover, DE 19904

RE: **Atlantic Concrete Co., Inc.**  
**Revised Air Quality Permit Application Package for Construction/Operation of New**  
**Concrete Dry Batch Plant located at 16762 Old Orchard Rd., Lewes, DE**

Dear Mr. Bediako:

Rainwise Environmental Solutions, LLC., is pleased to submit, on behalf of the Atlantic Concrete Company, Inc., the revised air quality permit application package for the construction and operation of a new Stephens Empire Concrete Dry Batch Plant located at 16762 Old Orchard Rd., Lewes, DE. As you are aware, the original application package submitted on July 27, 2020 was rescinded and revised to identify a smaller production plant (350 tph). The Atlantic Concrete Company, Inc., requests approval to replace its existing two (2) concrete manufacturing plants at its Lewes, DE, with one (1) 350 tph concrete manufacturing plant that is more efficient and environmentally-friendly. The new plant will be erected at the same location, and once the new plant is constructed and fully operational, the current plants will be decommissioned and dismantled. Atlantic Concrete has requested a throughput restriction of 200,000 cubic yards of concrete per rolling 12-month period. This is the same restriction as identified in its current operating permit issued for the 200 tph plant. The Facility has also requested an annual (rolling 12-month total) restriction of 3,744 hours of operation.

Please know, the Atlantic Concrete Company has requested a Coastal Zone Act Status Decision be made determining that this action is not regulated or prohibited by the Coastal Zone Act and does not require a Coastal Zone Act Permit. The Coastal Zone Act Status Decision Application was submitted in September 2020 and publicly advertised in December 2020. The application was provided to the Office of the Secretary on January 12, 2021. The Secretary has until January 27th to issue his decision.

The enclosed application package includes:

- Revised AQM-1 Form Administrative Info.;
- Revised AQM-2 Form Process Flow Form and supplemental documents;
- Revised AQM-3.1 Form General Process Info (Overall Plant Operations Description)
- Revised AQM-3.7 Form Silo (Emission Units -EU1, EU2, EU3) and supplemental information;
- Revised AQM-4.6 Form Baghouse Form (EU1, EU2, EU3-SOS1020 Silo Baghouses/Bin Vents) and supplemental information;

**Mr. Phaniel C.K. Bediako, Ph.D.**  
**Environmental Engineer**  
**Atlantic Concrete Company, Inc.**  
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- Revised AQM-4.6 Form Baghouse Form (EU4–Weigh Hopper Baghouse–SV-20) and supplemental information;
- Revised AQM-4.6 Form Baghouse Form (EU5–Truck Loading Baghouse–RA-120) and supplemental information;
- Revised AQM-5 Form Emissions Info Form Sheet 1 (EU1 thru EU4);
- Revised AQM-5 Form Emissions Info Form Sheet 2 (EU5 and Overall Process Emissions);
- Revised Final Emissions Spreadsheet Source Specific Control Used in Place of AP-42 Emission Factors;

Please know the Noise Reduction Plan, Fugitive Emission Control Plan and Safety Data Sheets were provided in July 2020 and therefore, not included with this submission. Also, two (2) separate checks for the construction permit fee of \$215.00 and legal notice fee of \$325.00, both made payable to the State of Delaware, were previously submitted in July 2020.

Thank you for your prompt attention to the application. Should you have any questions or require additional information, please feel free to contact me at (302) 423.8137.

Regards,

*Amber Moore*

Amber N. Moore  
Project Manager  
RainWise Environmental Solutions, LLC.

cc: Jon Jones, Atlantic Concrete



**DNREC – Division of Air Quality**  
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**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**

<b>Company and Site Information</b>	
1.	Company Name: <b>Atlantic Concrete Company, Inc.</b>
2.	Company Mailing Address: <b>P.O. Box 321</b> City: <b>Milford</b> State: <b>DE</b> Zip Code: <b>19963</b>
3.	Site Name: <b>Atlantic Concrete Co.-Lewes Plant</b>
4.	Site Mailing Address: <b>P.O. Box 321</b> (if different from above) City: <b>Milford</b> State: <b>DE</b> Zip Code: <b>19963</b>
5.	Physical Location of Site: <b>16762 Old Orchard Rd.</b> (if different from above) City: <b>Lewes</b> State: <b>DE</b> Zip Code: <b>19958</b>
6.	Site Billing Address: <b>P.O. Box 321</b> (if different from above) City: <b>Milford</b> State: <b>DE</b> Zip Code: <b>19963</b>
7.	Air Quality Management Facility ID Number:
8.	Site NAICS Code: <b>327320</b> (list all that apply)
9.	Site SIC Code: <b>3273</b> (list all that apply)
10.	Site Location Coordinates: Latitude: <b>38 ° 75' 59"</b> Longitude: <b>-75 ° 17' 30"</b>
11.	Is the Facility New or Existing? <input type="checkbox"/> NEW <input checked="" type="checkbox"/> 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? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
12.	Is this Application For New Equipment or a Modification to Existing Equipment? <input checked="" type="checkbox"/> New Equipment <input type="checkbox"/> Modification of Existing Equipment <input type="checkbox"/> Other (Specify):
If the application is for the modification of existing equipment, complete the rest of Question 12. If not, proceed to Question 13.	



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12.1. Does the Equipment Have an Active Air Permit?	YES	NO
<i>If the equipment has an active air permit, complete the rest of Question 12. If not, proceed to Question 13.</i>		
12.2. Permit Number of Existing Equipment:		
13. Status of Equipment Being Applied For:	<input checked="" type="checkbox"/> Natural Minor Source <input type="checkbox"/> Synthetic Minor Source <input type="checkbox"/> Major Source <input type="checkbox"/> Federally Enforceable Restrictions	
14. Facility Status:	<input type="checkbox"/> Natural Minor Facility <input type="checkbox"/> Synthetic Minor Facility <input type="checkbox"/> Major Facility	
<i>If the facility is a Major Source, complete the rest of Question 14. If not, proceed to Question 15.</i>		
14.1. Responsible Official Name: <b>Jon Jones</b>		
14.2. Responsible Official Title: <b>General Manager</b>		

<b>Contact Information</b>	
15. Name of Owner or Facility Manager:	<b>Jon Jones</b>
16. Title of Owner or Facility Manager:	<b>General Manager</b>
17. Permit Contact Name:	<b>Jon Jones</b>
18. Permit Contact Title:	<b>General Manager</b>
19. Permit Contact Telephone Number:	<b>302.422.8017</b>
20. Permit Contact Fax Number:	<b>N/A</b>
21. Permit Contact E-Mail Address:	<b>jojones1@vt.edu</b>
22. Billing Contact Name:	<b>Constance Sullivan</b>
23. Billing Contact Title:	<b>Office Manager</b>
24. Billing Contact Telephone Number:	<b>302.422.8017</b>
25. Billing Contact Fax Number:	<b>N/A</b>
26. Billing Contact E-Mail Address:	<b>csullivan.atlanticconcrete@gmail.com</b>

<b>Proposed Construction and Operating Schedule</b>	
27. When Will the Proposed Construction/Installation/Modification Occur:	<b>As soon as possible</b>
28. Proposed Operating Schedule:	<b>12 hours/day 6 days/week 52 weeks/year</b>
28.1. Is There Any Additional Information Regarding the Operating Schedule?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If YES, complete the rest of Question 28. If NO, proceed to Question 29.</i>	
28.2. Describe the Additional Information:	<b>The Atlantic Concrete Company, Inc., requests a permit to construct and operate one (1) Stephens Model Empire Concrete Dry Batch Plant (rated at 350 tph) consisting of: a 14 yard cement batcher; one (1) Stephens Multiple Compartment Storage Silo; one (1) C&amp;W Model RA120 Reverse Air Central Dust Collector; three (3) Stephens SOS-1020</b>



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Cartridge Pulse Silo Dust Collectors; one (1) Stevens SV-20 Cement Batcher Vent; and ancillary equipment. The Facility will utilize an electric air compressor to provide power to operate the plant. An 8 MMBTU/hr boiler utilizing natural gas will be used to heat water (as needed). Operating hours vary based on customer demand and can be impacted by weather. Typical hours of operation are 12 hrs/day (6 am to 6 pm) Monday through Friday and approximately 6-12 hrs/day (6 am to 12 pm-6 pm) on Saturday. Occasional night work Monday through Friday.

**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: **Attached**

**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 Question 35.*

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:

☐ 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



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AQM-3.1	AQM-3.6	AQM-3.11	AQM-4.1	AQM-	AQM-4.11
AQM-3.2	AQM-3.7	AQM-3.12	AQM-4.2	4.5	AQM-4.12
AQM-3.3	AQM-3.8	AQM-3.13	AQM-4.3	AQM-	AQM-5
				4.6	
				AQM-	
				4.7	
				AQM-	
				4.8	

**36. Check Which Documents are Attached:**

- |   |   |
|---|---|
| <input type="checkbox"/> Coastal Zone Determination                     | <input type="checkbox"/> Claim of Confidentiality   |
| <input checked="" type="checkbox"/> Coastal Zone Permit                 | <input checked="" type="checkbox"/> Manufacturer Specification(s)   |
| <input checked="" type="checkbox"/> Proof of Local Zoning               | <input checked="" type="checkbox"/> Material Safety Data Sheets (MSDSs)   |
| <input type="checkbox"/> Application Fee                                | <input checked="" type="checkbox"/> Supporting Calculations   |
| <input type="checkbox"/> Advertising Fee                                | <input checked="" type="checkbox"/> Descriptive Cover Letter  |
| <input type="checkbox"/> Applicant Background Information Questionnaire | <input checked="" type="checkbox"/> Other (Specify): <b>Dust Control Plan, Noise Reduction Plan, MNSR BACT Analysis</b> |

**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.

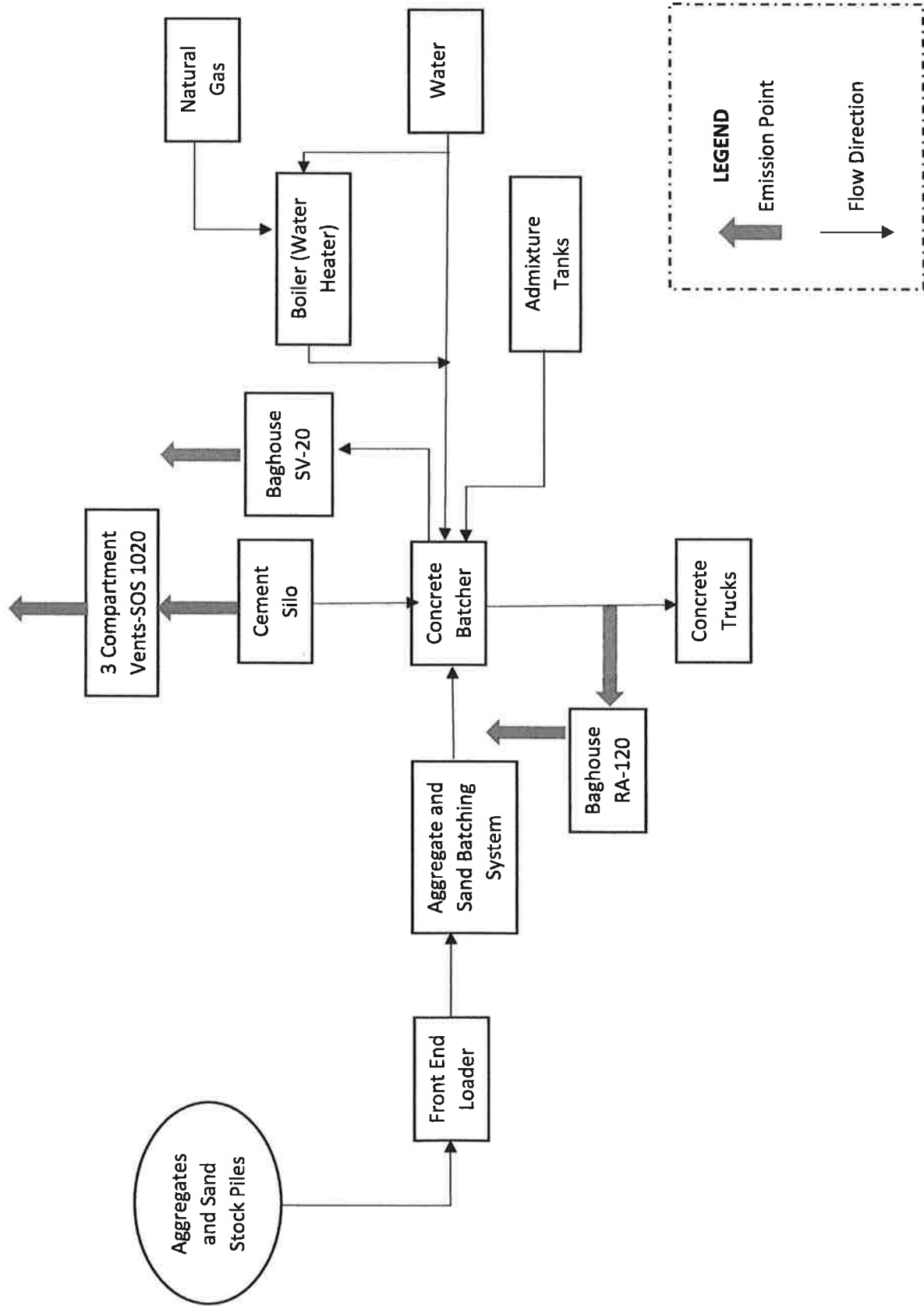
**Jon Jones**  
Owner or Operator

Signature of Owner or Operator

12/22/20  
Date

**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:**  
**State of Delaware**





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**Generic Process Equipment Application**

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

**General Information**

1. Facility Name: **Atlantic Concrete Co.-Lewes**
2. Equipment ID Number: **N/A**
3. Provide a brief description of Equipment or Process: **Atlantic Concrete plans to replace its present concrete plants with a new, modern and more efficient plant prior to the end of the 2021 calendar year. Specifically, Atlantic Concrete requests authorization to replace the existing 2 concrete manufacturing plants with one (1) Stephens Model Empire Concrete Dry Batch Plant (rated at 350 tph) consisting of: a 14 yard cement batcher; one (1) Stephens Multiple Compartment Storage Silo; one (1) C&W Model RA120 Reverse Air Central Dust Collector; three (3) Stephens SOS-1020 Cartridge Pulse Silo Dust Collectors; one (1) Stevens SV-20 Cement Batch Vent; and ancillary equipment. The Facility will utilize an electric air compressor to provide power to operate the plant. An 8 MMBTU/hour boiler utilizing natural gas will be used to heat water (as needed). Operating hours vary based on customer demand and can be impacted by weather. Typical hours of operation are 10-12 hours/day (6 a.m. to 6 p.m.) Monday through Friday and approximately 6-12 hours/day (6 a.m. to 12 p.m.-6 p.m.) on Saturday. Occasional night work may occur Monday through Friday.**
4. Manufacturer: **Stephens**
5. Model: **Empire**
6. Serial Number: **N/A**

**Raw Material Information**

7. Raw Materials Used in Process

If there are more than four Raw Materials used, attach additional copies of this page as needed.

<u>Raw Material Used</u>	<u>CAS Number</u>	<u>Usage Rate (include units)</u>	<u>MSDS Attached?</u>
7.1. <b>Portland Cement</b>	<b>65997-15-1</b>	<b>231,504 tons/year</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
7.2. <b>Sand</b>		<b>587,028 tons/year</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
7.3. <b>Aggregate</b>		<b>765,617 tons/year</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
7.4.			<input type="checkbox"/> YES <input type="checkbox"/> NO

Attach a copy of all calculations made to support the data in the table above.  
Attach a Material Safety Data Sheet (MSDS) for each Raw Material used.

**Products Produced Information**

8. Products Produced

If there are more than four Products Produced, attach additional copies of this page as needed.

<u>Product Produced</u>	<u>CAS Number</u>	<u>Production Rate (include units)</u>	<u>MSDS Attached?</u>
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**Products Produced Information**

8.1. Concrete		174 cu.yd./hr	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
8.2.			<input type="checkbox"/> YES <input type="checkbox"/> NO
8.3.			<input type="checkbox"/> YES <input type="checkbox"/> NO
8.4.			<input type="checkbox"/> YES <input type="checkbox"/> NO

Attach a copy of all calculations made to support the data in the table above.  
Attach a Material Safety Data Sheet (MSDS) for each Product Produced.

**Byproducts Generated Information**

9. Byproducts Generated

If there are more than four Byproducts Generated, attach additional copies of this page as needed.

	<u>Byproduct Generated</u>	<u>CAS Number</u>	<u>Generation Rate</u> (include units)	<u>MSDS Attached?</u>
9.1.	N/A			<input type="checkbox"/> YES <input type="checkbox"/> NO
9.2.				<input type="checkbox"/> YES <input type="checkbox"/> NO
9.3.				<input type="checkbox"/> YES <input type="checkbox"/> NO
9.4.				<input type="checkbox"/> YES <input type="checkbox"/> NO

Attach a copy of all calculations made to support the data in the table above.  
Attach a Material Safety Data Sheet (MSDS) for each Byproduct Generated.

**General Information**

10. Manufacturer's Rated Capacity or Maximum Throughput of Equipment or Process: **350 tph or 174 cu. yd/hr. based on a conversion factor of 2.012 tons/cu.yd**

11. Describe Important Manufacturer Specifications and/or Operating Parameters for Equipment or Process: **N/A**

Attach the Manufacturer's Specification Sheet(s) for the equipment or process.

**Control Device Information**

12. Is an Air Pollution Control Device Used? ☒ YES ☐ NO

*If an Air Pollution Control Device is used, complete the rest of Question 12. If not, proceed to Question 13.*

12.1. Is Knockout Used? ☐ YES ☒ NO

If YES, complete Form AQM-4.11 and attach it to this application.

12.2. Is a Settling Chamber Used? ☐ YES ☒ NO

If YES, complete Form AQM-4.10 and attach it to this application.



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**Control Device Information**

12.3. Is an Inertial or Cyclone Collector Used? ☐ YES ☒ NO

If YES, complete Form AQM-4.5 and attach it to this application.

12.4. Is a Fabric Collector or Baghouse Used? ☒ YES ☐ NO

If YES, complete Form AQM-4.6 and attach it to this application.

12.5. Is a Venturi Scrubber Used? ☐ YES ☒ NO

If YES, complete Form AQM-4.8 and attach it to this application.

12.6. Is an Electrostatic Precipitator Used? ☐ YES ☒ NO

If YES, complete Form AQM-4.7 and attach it to this application.

12.7. Is Adsorption Equipment Used? ☐ YES ☒ NO

If YES, complete Form AQM-4.2 and attach it to this application.

12.8. Is a Scrubber Used? ☐ YES ☒ NO

If YES, complete Form AQM-4.4 and attach it to this application.

12.9. Is a Thermal Oxidizer or Afterburner Used? ☐ YES ☒ NO

If YES, complete Form AQM-4.1 and attach it to this application.

12.10. Is a Flare Used? ☐ YES ☒ NO

If YES, complete Form AQM-4.3 and attach it to this application.

12.11. Is Any Other Control Device Used? ☐ YES ☒ NO

If YES, attach a copy of the control device Manufacturer's Specification Sheet(s).

If any other control device is used, complete the rest of Question 12. If not, proceed to Question 13.

12.12. Describe Control Device:

12.13. Pollutants Controlled: ☐ VOCs ☐ HAPs ☐ PM ☐ PM<sub>10</sub> ☐ PM<sub>2.5</sub> ☐ NO<sub>x</sub> ☐ SO<sub>x</sub> ☐ Metals  
☐ Other (Specify):

12.14. Control Device Manufacturer:

12.15. Control Device Model:

12.16. Control Device Serial Number:

12.17. Control Device Design Capacity:

12.18. Control Device Removal or Destruction Efficiency:

**Stack Information**

13. 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

☐ Through Another Control Device Described on This Form

If any of the process equipment vents directly to the atmosphere or through another control device described on this form, proceed to Question 14. If the process equipment vents through a control device, provide the stack parameters on the control device form and proceed to Question 18.



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<b><u>Stack Information</u></b>	
14. Number of Air Contaminant Emission Points:	
If there are more than three Emission Points, attach additional copies of this page as needed.	
For the first Emission Point	
15. Emission Point Name:	
15.1. Stack Height Above Grade:	feet
15.2. Stack Exit Diameter:	feet (Provide Stack Dimensions If Rectangular Stack)
15.3. Is a Stack Cap Present?	<input type="checkbox"/> YES <input type="checkbox"/> NO
15.4. Stack Configuration:	<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Downward-Venting (check all that apply) <input type="checkbox"/> Other (Specify):
15.5. Stack Exit Gas Temperature:	°F
15.6. Stack Exit Gas Flow Rate:	ACFM
15.7. Distance to Nearest Property Line:	feet
15.8. Describe Nearest Obstruction:	
15.9. Height of Nearest Obstruction:	feet
15.10. Distance to Nearest Obstruction:	feet
15.11. Are Stack Sampling Ports Provided?	<input type="checkbox"/> YES <input type="checkbox"/> NO
For the second Emission Point. If there is no second Emission Point, proceed to Question 18.	
16. Emission Point Name:	
16.1. Stack Height Above Grade:	feet
16.2. Stack Exit Diameter:	feet (Provide Stack Dimensions If Rectangular Stack)
16.3. Is a Stack Cap Present?	<input type="checkbox"/> YES <input type="checkbox"/> NO
16.4. Stack Configuration:	<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Downward-Venting (check all that apply) <input type="checkbox"/> Other (Specify):
16.5. Stack Exit Gas Temperature:	°F
16.6. Stack Exit Gas Flow Rate:	ACFM
16.7. Distance to Nearest Property Line:	feet
16.8. Describe Nearest Obstruction:	
16.9. Height of Nearest Obstruction:	feet
16.10. Distance to Nearest Obstruction:	feet
16.11. Are Stack Sampling Ports Provided?	<input type="checkbox"/> YES <input type="checkbox"/> NO
For the third Emission Point. If there is no third Emission Point, proceed to Question 18.	
17. Emission Point Name:	
17.1. Stack Height Above Grade:	feet
17.2. Stack Exit Diameter:	feet (Provide Stack Dimensions If Rectangular Stack)



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<b><u>Stack Information</u></b>	
17.3. Is a Stack Cap Present?	<input type="checkbox"/> YES <input type="checkbox"/> NO
17.4. Stack Configuration:	<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Downward-Venting (check all that apply) <input type="checkbox"/> Other (Specify):
17.5. Stack Exit Gas Temperature:	°F
17.6. Stack Exit Gas Flow Rate:	ACFM
17.7. Distance to Nearest Property Line:	feet
17.8. Describe Nearest Obstruction:	
17.9. Height of Nearest Obstruction:	feet
17.10. Distance to Nearest Obstruction:	feet
17.11. Are Stack Sampling Ports Provided?	<input type="checkbox"/> YES <input type="checkbox"/> NO

<b><u>Monitoring Information</u></b>	
18. Will Emissions Data be Recorded by a Continuous Emission Monitoring System?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If Yes, attach a copy of the Continuous Emission Monitoring System Manufacturer's Specification Sheets	
If YES, complete the rest of Question 18. If NO, proceed to Question 19.	
18.1. Pollutants Monitored:	<input type="checkbox"/> VOCs <input type="checkbox"/> HAPs <input type="checkbox"/> PM <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> PM <sub>2.5</sub> <input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> SO <sub>x</sub> <input type="checkbox"/> Metals <input type="checkbox"/> Other (Specify):
18.2. Describe the Continuous Emission Monitoring System:	
18.3. Manufacturer:	
18.4. Model:	
18.5. Serial Number:	
18.6. Will Multiple Emission Units Be Monitored at the Same Point?	<input type="checkbox"/> YES <input type="checkbox"/> NO
If YES, complete the rest of Question 18. If NO, proceed to Question 19.	
18.7. Emission Units Monitored:	
18.8. Will More Than One Emission Unit be Emitting From the Combined Point At Any Time?	<input type="checkbox"/> YES <input type="checkbox"/> NO
If YES, complete the rest of Question 18. If NO, proceed to Question 19.	
18.9. Emission Units Emitting Simultaneously:	

<b><u>Voluntary Emission Limitation Request Information</u></b>	
19. Are You Requesting Any Voluntary Emission Limitations to Avoid Major Source Status, Minor New Source Review, MACT, NSPS, etc.?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If YES, complete the rest of Question 19. If NO, proceed to Question 20.	





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**Voluntary Emission Limitation Request Information**

19.1. Describe Any Requested Emission Limitations: **N/A**

**Voluntary Operating Limitation Request Information**

20. 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 20. If NO, proceed to Question 21.*

20.1. Describe Any Requested Operating Limitations: **Atlantic Concrete has requested a throughput restriction of 200,000 cubic yards of concrete per rolling 12-month period. This is the same restriction as identified in its current operating permit issued for the 200 tph plant. The Facility has also requested an annual (rolling 12-month total) restriction of 3,744 hours of operation. Atlantic Concrete does not intend to operate the Plant at maximum production capacity during all hours of operation as production demand varies. The operational limitations have been requested as part of the Coastal Zone Act Status Decision Application submitted in September of 2020. The operational limitations support the Facility's position that the new plant is not regulated or prohibited by the Coastal Zone Act and does not require a Coastal Zone Act Permit. The new plant is not an expansion or extension of a nonconforming manufacturing use as defined in administrative regulations. The Facility has requested to maintain its annual concrete production restriction and hours of operation identified by the Air Operating Permit associated with its 200 tph plant, thus not increasing its environmental impact. This replacement is no different than the replacement previously authorized by the Coastal Zone Act Program and Air Quality Management Section.**  
**Based on the limitations identified above, the Facility would not trigger any MACT requirements since there are no HAPs at any significant levels.**

**Additional Information**

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

*If YES, complete the rest of Question 21.*

21.1. Describe: **The boiler is exempt under Reg. 1102, Appendix A, 2.2 which exempts equipment that "uses any natural gas, LP gas, or other desulfurized fuel gas and has a rated heat input of less than 15 mmBTU/hr.**



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## Silo Application

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

<u><b>General Information</b></u>		
1.	Facility Name: <b>Atlantic Concrete Company, Inc.-Lewes Plant</b>	
2.	Equipment ID Number: <b>N/A</b>	
3.	Manufacturer: <b>Stephens</b>	
4.	Model: <b>Empire 2000</b>	
5.	Serial Number: <b>10499-20</b>	
6.	Silo Type: <input type="checkbox"/> Tower Silo <input type="checkbox"/> Bunker Silo <input checked="" type="checkbox"/> Other (Specify): <b>Rectangle Cement Silo (Multi-Compartment). The Left Compartment (Compartment 2) has a storage volume of 81 tons, the Center Compartment (Compartment 1) has a storage volume of 155 tons, and the Right Compartment (Compartment 3) has a storage volume of 59 tons. The total storage volume is based on a conversion factor of 74 lbs/cubic foot and is representative of aerated material.</b>	
7.	Number of Compartments in Silo: <b>3 compartments.</b>	
8.	Material Stored in Silo:	
If there are more than three Materials Stored in the Silo, attach additional copies of this page as needed		
	<u>Material</u>	<u>Material Density</u>
8.1.	<b>Portland Cement</b>	<b>94 pounds/cubic foot</b>
8.2.	<b>Portland Cement</b>	<b>94 pounds/cubic foot</b>
8.3.	<b>Portland Cement</b>	<b>94 pounds/cubic foot</b>
Attach a Material Safety Data Sheet (MSDS) for <u>each</u> Material Stored in the Silo.		
9.	Silo Storage Capacity: <b>360 tons</b>	
10.	Silo Loading Method: <input checked="" type="checkbox"/> Pneumatic <input type="checkbox"/> Vacuum <input type="checkbox"/> Hydraulic <input type="checkbox"/> Other (Specify): <input type="checkbox"/> Mechanical	
11.	Maximum Rate of Silo Loading: <b>33.33 tons/hour</b>	
12.	Is the Silo Equipped With a Pressure-Vacuum Relief Valve? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
If YES, complete the rest of Question 12. If NO, proceed to Question 13.		
12.1.	Describe the Pressure Relief Valve Settings: <b>One safety-pressure relief valve with cover mounted on top of each compartment, mounted externally. Spring loaded and calibrated pressure valve 0.7-1 psi @ 4" diameter. The silo comes with high and low bin indicators per each compartment point. The pop-off valves are set at 1 psi before operation.</b>	
13.	Is the Silo Equipped With a System That Prevents Overfilling? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
If YES, complete the rest of Question 13. If NO, proceed to Question 14.		



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**General Information**

13.1. Describe the Overfilling Prevention System: **Top-mounted high and low material level indicators provided in each compartment with lighted signals in control box. 15 psi max blow off pressure, anti-pressure overfill provided for each compartment.**

14. Is the Silo Equipped With a Silo Level Monitoring System? ☒ YES ☐ NO

*If YES, complete the rest of Question 14. If NO, proceed to Question 15.*

14.1. Type of Level Indicator: ☒ Point  
☐ Continuous  
☐ Other (Specify):

15. Is the Silo Equipped With a Power/Control Panel with a High Level Indicator? ☒ YES ☐ NO

**Control Device Information**

16. Is an Air Pollution Control Device Used? ☒ YES ☐ NO

*If an Air Pollution Control Device is used, complete the rest of Question 16. If not, proceed to Question 17.*

16.1. Is Knockout Used? ☐ YES ☒ NO

*If YES, complete Form AQM-4.11 and attach it to this application.*

16.2. Is a Settling Chamber Used? ☐ YES ☒ NO

*If YES, complete Form AQM-4.10 and attach it to this application.*

16.3. Is an Inertial or Cyclone Collector Used? ☐ YES ☒ NO

*If YES, complete Form AQM-4.5 and attach it to this application.*

16.4. Is a Fabric Collector or Baghouse Used? ☒ YES ☐ NO

*If YES, complete Form AQM-4.6 and attach it to this application.*

16.5. Is a Venturi Scrubber Used? ☐ YES ☒ NO

*If YES, complete Form AQM-4.8 and attach it to this application.*

16.6. Is an Electrostatic Precipitator Used? ☐ YES ☒ NO

*If YES, complete Form AQM-4.7 and attach it to this application.*

16.7. Is Any Other Control Device Used? ☐ YES ☒ NO

*If YES, attach a copy of the Control Device Manufacturer's Specification Sheets.*

*If Any Other Control Device is used, complete the rest of Question 16. If not, proceed to Question 17.*

16.8. Describe Control Device:

16.9. Pollutants Controlled: ☐ HAPs ☐ PM ☐ PM<sub>10</sub> ☐ PM<sub>2.5</sub> ☐ Metals ☐ Other (Specify):

16.10. Control Device Manufacturer:

16.11. Control Device Model:

16.12. Control Device Serial Number:

16.13. Control Device Design Capacity:



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**Control Device Information**

16.14. Control Device Removal or Destruction Efficiency:

**Stack Information**

17. 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

☐ Through Another Control Device Described on This Form

*If any of the process equipment vents directly to the atmosphere or through another control device described on this form, proceed to Question 18. If the process equipment vents through a control device, provide the stack parameters on the control device form (AQM-4 Series) and proceed to Question 19.*

18. Emission Point Name:

18.1. Stack Height Above Grade:        **feet**

18.2. Stack Exit Diameter:        **feet**  
(Provide Stack Dimensions If Rectangular Stack)

18.3. Is a Stack Cap Present?    ☐ YES ☐ NO

18.4. Stack Configuration: ☐ Vertical    ☐ Horizontal    ☐ Downward-Venting  
(check all that apply)    ☐ Other (Specify):

18.5. Stack Exit Gas Temperature:        **°F**

18.6. Stack Exit Gas Flow Rate:        **ACFM**

18.7. Distance to Nearest Property Line:        **feet**

18.8. Describe Nearest Obstruction:

18.9. Height of Nearest Obstruction:        **feet**

18.10. Distance to Nearest Obstruction:        **feet**

18.11. Are Stack Sampling Ports Provided?        ☐ YES ☐ NO

**Monitoring Information**

19. 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 19. If NO, proceed to Question 20.*

19.1. Pollutants Monitored: ☐ VOCs    ☐ HAPs    ☐ PM    ☐ PM<sub>10</sub>    ☐ PM<sub>2.5</sub>    ☐ NO<sub>x</sub>    ☐ SO<sub>x</sub>    ☐ Metals  
☐ Other (Specify):

19.2. Describe the Continuous Emission Monitoring System:

19.3. Manufacturer:

19.4. Model:

19.5. Serial Number:





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**Monitoring Information**

19.6. Will Multiple Emission Units Be Monitored at the Same Point? ☐ YES ☐ NO

*If YES, complete the rest of Question 19. If NO, proceed to Question 20.*

19.7. Emission Units Monitored:

19.8. Will More Than One Emission Unit be Emitting From the Combined Point At Any Time? ☐ YES ☐ NO

*If YES, complete the rest of Question 19. If NO, proceed to Question 20.*

19.9. Emission Units Emitting Simultaneously:

**Visible Emissions Monitoring Information**

20. Proposed Technique Used to Monitor Visible Emissions: ☐ Opacity Monitor (COM)  
☒ Manual (Method 9)  
☒ Manual (Method 22)  
☐ Other (Describe):

*If an Opacity Monitor (COM) is used, complete the rest of Question 20. If not, proceed to Question 21.*

20.1. Describe the Continuous Opacity Monitoring System:

20.2. Manufacturer:

20.3. Model:

20.4. Serial Number:

21. Proposed Frequency of Opacity Monitoring: **Visual observations are made daily during start-up and loading operations.**

**Monitoring and Alarm Information**

22. Are There Any Alarms You Would Like the Department to Consider When Drafting the Permit? ☒ YES ☐ NO

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

22.1. Describe the System Alarm(s):

**If there are more than five alarms, attach additional copies of this page as needed.**

	Operating Parameter Monitored	Describe Alarm Trigger	Monitoring Device or Alarm Type	Does the Alarm Initiate an Automated Response?
22.1.1.	Material Level	Full Point	<input checked="" type="checkbox"/> Visual <input checked="" type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Describe:
22.1.2.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:



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<b><u>Monitoring and Alarm Information</u></b>				
22.1.3.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
22.1.4.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
22.1.5.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:

<b><u>Voluntary Emission Limitation Request Information</u></b>	
23.	Are You Requesting Any <u>Voluntary Emission Limitations</u> to Avoid Major Source Status, Minor New Source Review, MACT, NSPS, etc.? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If YES, complete the rest of Question 23. If NO, proceed to Question 24.	
23.1.	Describe Any Proposed Emission Limitations: .

<b><u>Voluntary Operating Limitation Request Information</u></b>	
24.	Are You Requesting Any <u>Voluntary Operating Limitations</u> to Avoid Major Source Status, Minor New Source Review, MACT, NSPS, etc.? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If YES, complete the rest of Question 24. If NO, proceed to Question 25.	
24.1.	Describe Any Proposed Operating Limitations: <b>Facility has requested concrete production limitations and annual hours of operation restrictions to be incorporated into the permit.</b>

<b><u>Additional Information</u></b>	
25.	Is There Any Additional Information Pertinent to this Application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If YES, complete the rest of Question 25.	



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**Additional Information**

25.1. Describe:



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**Baghouse Application**

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

**General Information**

1. Facility Name: **Atlantic Concrete Company, Inc.-Lewes Plant**

2. Equipment ID Number: **EU4**

3. Manufacturer: **Stephens Manufacturing**

4. Model: **SV-20**

5. Serial Number: **10499-20**

6. Is the Baghouse Insulated? ☐ YES ☒ NO

7. Design Minimum Operating Temperature: **220 °F**

8. Design Maximum Operating Temperature: **270 °F**

9. Are Temperature Controls Provided? ☐ YES ☒ NO

*If Yes, complete the rest of Question 9. If no, proceed to Question 10.*

9.1. Describe the Temperature Controls:

10. Air Flow Through Baghouse: ☒ Forced  
☐ Induced  
☐ Other (Specify):

11. Direction of Flow Through Filters: ☐ Inside Out  
☒ Outside In

12. Particulate Removal Efficiency: **99.6 %**

**Attach the Manufacturer's Specification Sheet for the Baghouse and Particle Size Removal Efficiency Curve and basis of determination.**

**Compartment Information**

13. Number of Compartments: **1**

14. Number of Filters (Bags) Per Compartment: **14**

15. Can the Compartments be Isolated for Replacement or Repair? ☒ YES ☐ NO

**Gas Stream Information**

16. Maximum Inlet Volumetric Gas Flow Rate: **250 acfm at 270 °F**

17. Maximum Outlet Volumetric Gas Flow Rate: **250 acfm at 270 °F**

18. Dew Point at Maximum Moisture Content of Gas: **N/A °F**



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**Gas Stream Information**

19. pH of Gas Handled: **N/A**

20. Dust Characteristics: ☐ Sticky  
(Check All That Apply) ☐ Wet  
☐ Corrosive  
☒ Dry  
☐ Other (Specify):

**Contaminant Information**

21. Percent of Each Contaminant in the Waste Gas and Removal Efficiency

If more than five Contaminants are present, attach additional copies of this page as needed.

<u>Contaminant Name</u>	<u>Contaminant CAS Number</u>	<u>Percent of Waste Gas</u>	<u>Removal Efficiency</u>
21.1. <b>Portland Cement</b>		<b>100 %</b>	<b>99.6 %</b>
21.2.		%	%
21.3.		%	%
21.4.		%	%
21.5.		%	%

**Fabric Filter (Bag) Information**

22. Fabric Type: ☒ Felted ☐ Membrane ☐ Ceramic Cartridge  
☐ Woven ☐ PTFE Membrane ☐ Other (Specify):  
☐ Felted-Woven ☐ Sintered Metal

23. Fabric Material: **Polyester Dacron, Felt**

24. Maximum Continuous Filter Operating Temperature: **270 °F**

25. Clean Fabric Permeability: **30-40 scfm/ft<sup>2</sup> at ΔP 0.5 inches of water**

26. Fabric Filter (Bag) Diameter or Width: **4 inches**

27. Fabric Filter (Bag) Length: **16 inches**

28. Effective Area Per Filter: **20 square feet**

29. Minimum Effective Air to Cloth Ratio: **5.6:1 feet/min**

30. Maximum Effective Air to Cloth Ratio: **8:1 at bags feet/min**

31. Design Pressure Drop Across Baghouse: **0.5 inches water**

32. Describe Determining Factor Fabric Filter Changing/Replacement: **Life of Bags: 18 to 36 months (usage). Variation in pressure drop will determine need for bag replacement.**

**Attach the Manufacturer's Specification Sheet for the Fabric Filters (Bags).**



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**Filter Cleaning Information**

33. Filter Cleaning Method: ☐ Manual Cleaning ☐ Bag Collapse ☐ Reverse Air Jet  
☐ Mechanical Shakers ☐ Sonic Cleaning ☐ Pulse Jet  
☐ Pneumatic Shakers ☒ Reverse Air Flow ☐ Other (Specify):

*If Reverse Air Jet or Pulse Jet is used, complete the rest of Question 33. If not, proceed to Question 34.*

33.1. Air Pressure: **ambient psi**

33.2. Describe How Air Is Supplied to System: **Air manifold is supplied with vent. Filter regulator is included to supply "dry air". Magnehelic gauge for inspecting conditions of cartridges. The process occurs when displaced air is forced through the bags and clean air is pulled through the bags when the batcher discharges.**

34. Describe How Filter Cleaning Is Initiated: ☒ Manual ☐ Pressure Drop  
☐ Timer ☒ Other (Specify): **Bags are shaken only after complete unloading for 5-6 minutes with standard 1/3 HP. The SV-20 batcher vent mounts on top of the cement batcher.**

**Hopper Information**

35. Is the Hopper Heated? ☐ YES ☒ NO

36. Is there a Hopper Vibrator? ☐ YES ☒ NO

37. Describe How Collected Material is Treated or Disposed of: **Material (including spent bags) are removed from the unit and placed in a sealed container until a waste determination is performed to ensure the material is properly classified as non-hazardous or hazardous. Typically, the material is designated as non-hazardous material and can be disposed of in the municipal waste dumpster. If for some reason the material is classified as hazardous, the material will be managed in accordance with hazardous waste regulations.**

**Stack Information**

38. Emission Point Name: **EU4**

38.1. Stack Height Above Grade: **27 feet**

38.2. Stack Exit Diameter: **10x10 inches feet**  
*(Provide Stack Dimensions If Rectangular Stack)*

38.3. Is a Stack Cap Present? ☐ YES ☒ NO

38.4. Stack Configuration: ☐ Vertical ☐ Horizontal ☒ Downward-Venting  
*(check all that apply)* ☐ Other (Specify):

38.5. Stack Exit Gas Temperature: **270 °F**

38.6. Stack Exit Gas Flow Rate: **250 ACFM**

38.7. Distance to Nearest Property Line: **approximately 150 feet**

38.8. Describe Nearest Obstruction: **The nearest obstruction falls beyond the property line. A vegetated border consisting of mature trees is provided by adjacent housing developments.**



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**Stack Information**

- 38.9. Height of Nearest Obstruction:            **feet**
- 38.10. Distance to Nearest Obstruction:        **feet**
- 38.11. Are Stack Sampling Ports Provided?      ☐ YES ☒ NO

**Monitoring and Alarm Information**

39. Are There Any Alarms You Would Like the Department to Consider When Drafting the Permit?                      ☒ YES ☐ NO

*If YES, complete the rest of Question 39. If NO, proceed to Question 40.*

39.1. Describe the System Alarm(s):

**If there are more than five alarms, attach additional copies of this page as needed.**

	<b>Operating Parameter Monitored</b>	<b>Describe Alarm Trigger</b>	<b>Monitoring Device or Alarm Type</b>	<b>Does the Alarm Initiate an Automated Response?</b>
39.1.1.	<b>Overfill portection provided on fill lines.</b>	<b>Established based on mftr. recommendations.</b>	<input checked="" type="checkbox"/> Visual <input checked="" type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.2.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.3.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.4.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.5.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:

**Additional Information**



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**Additional Information**

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

*If YES, complete the rest of Question 40.*

40.1. Describe: **The Stephens Weigh Batcher Filter Vent SV-20 is an efficient means of collecting dust particles and preventing them from being discharged into the atmosphere during the batching process. Particles accumulated are recycled and discharged back into the weigh batcher. The SV-20 Batcher Vent mounts on top of the cement batcher. The filtration occurs when displaced air is forced through the bags and clean air is pulled through the bags when the batcher discharges. The unit weighs approximately 150 pounds.**





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**Baghouse Application**

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

<u><b>General Information</b></u>	
1.	Facility Name: <b>Atlantic Concrete Company, Inc.-Lewes Plant</b>
2.	Equipment ID Number: <b>EU5 -Truck Loading</b>
3.	Manufacturer: <b>C&amp;W Manufacturing and Sales Co.</b>
4.	Model: <b>Reverse Air Central Dust Collector RA-120</b>
5.	Serial Number: <b>N/A</b>
6.	Is the Baghouse Insulated? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
7.	Design Minimum Operating Temperature: <b>32 °F</b>
8.	Design Maximum Operating Temperature: <b>°F</b>
9.	Are Temperature Controls Provided? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If Yes, complete the rest of Question 9. If no, proceed to Question 10.</i>	
9.1.	Describe the Temperature Controls:
10.	Air Flow Through Baghouse: <input checked="" type="checkbox"/> Forced <input type="checkbox"/> Induced <input type="checkbox"/> Other (Specify):
11.	Direction of Flow Through Filters: <input checked="" type="checkbox"/> Inside Out <input type="checkbox"/> Outside In
12.	Particulate Removal Efficiency: <b>99.9 %</b>
<b>Attach the Manufacturer's Specification Sheet for the Baghouse and Particle Size Removal Efficiency Curve and basis of determination.</b>	

<u><b>Compartment Information</b></u>	
13.	Number of Compartments: <b>1</b>
14.	Number of Filters (Bags) Per Compartment: <b>48</b>
15.	Can the Compartments be Isolated for Replacement or Repair? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

<u><b>Gas Stream Information</b></u>	
16.	Maximum Inlet Volumetric Gas Flow Rate: <b>5000 acfm at 32 °F</b>
17.	Maximum Outlet Volumetric Gas Flow Rate: <b>acfm at °F</b>
18.	Dew Point at Maximum Moisture Content of Gas: <b>N/A °F</b>



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**Gas Stream Information**

19. pH of Gas Handled: **N/A**

20. Dust Characteristics: ☐ Sticky  
 (Check All That Apply) ☐ Wet  
☐ Corrosive  
☒ Dry  
☐ Other (Specify):

**Contaminant Information**

21. Percent of Each Contaminant in the Waste Gas and Removal Efficiency

If more than five Contaminants are present, attach additional copies of this page as needed.

	<u>Contaminant Name</u>	<u>Contaminant CAS Number</u>	<u>Percent of Waste Gas</u>	<u>Removal Efficiency</u>
21.1.	<b>Portland Cement</b>		<b>100 %</b>	<b>99.9 %</b>
21.2.	<b>Aggregate</b>		<b>100 %</b>	<b>99.9 %</b>
21.3.	<b>Sand</b>		<b>100 %</b>	<b>99.9 %</b>
21.4.			%	%
21.5.			%	%

**Fabric Filter (Bag) Information**

22. Fabric Type: ☒ Felted ☐ Membrane ☐ Ceramic Cartridge  
☐ Woven ☐ PTFE Membrane ☐ Other (Specify):  
☐ Felted-Woven ☐ Sintered Metal

23. Fabric Material: **Polyester**

24. Maximum Continuous Filter Operating Temperature: °F

25. Clean Fabric Permeability: **25-45 cfm scfm/ft<sup>2</sup> at ΔP 0.5 inches of water**

26. Fabric Filter (Bag) Diameter or Width: **8 inches**

27. Fabric Filter (Bag) Length: **114 inches**

28. Effective Area Per Filter: **955 square feet**

29. Minimum Effective Air to Cloth Ratio: 0 feet/min

30. Maximum Effective Air to Cloth Ratio: 6.9 feet/min

31. Design Pressure Drop Across Baghouse: **6 inches water**

32. Describe Determining Factor Fabric Filter Changing/Replacement: **The cleaning process is initiated when the reverse air door on top of the unit is opened from air in the environment. The flow of air is reversed through bags causing dust to be released from bag and fall into hopper below. The cycle rotates between compartments so each is cleaned in rotation. The cleaning cycle of the filter bags is automatically programmed by the sequence timing panel. The time between cleaning cycles is controlled by one simple timer in the sequence panel. During the bag cleaning cycle, the air diverter door opens above one compartment and simultaneously redirects the air,**



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**Fabric Filter (Bag) Information**

causing the dust to be released from the bag and fall into the hopper below. The cycle rotates between compartments so each is cleaned in rotation. Only one air diverter door is open at a time. During normal operations all doors are closed.

Attach the Manufacturer's Specification Sheet for the Fabric Filters (Bags).

**Filter Cleaning Information**

33. Filter Cleaning Method: ☐ Manual Cleaning ☐ Bag Collapse ☐ Reverse Air Jet  
☐ Mechanical Shakers ☐ Sonic Cleaning ☐ Pulse Jet  
☐ Pneumatic Shakers ☒ Reverse Air Flow ☐ Other (Specify):

*If Reverse Air Jet or Pulse Jet is used, complete the rest of Question 33. If not, proceed to Question 34.*

33.1. Air Pressure: **0.3 psi**

33.2. Describe How Air Is Supplied to System: **A 10hp air blower motor is provided on top of the unit, electric operation with fan is provided.**

34. Describe How Filter Cleaning Is Initiated: ☐ Manual ☒ Pressure Drop  
☐ Timer ☐ Other (Specify):

**Hopper Information**

35. Is the Hopper Heated? ☐ YES ☒ NO

36. Is there a Hopper Vibrator? ☐ YES ☒ NO

37. Describe How Collected Material is Treated or Disposed of: **Material (including spent bags) are removed from the unit and placed in a sealed container until a waste determination is performed to ensure the material is properly classified as non-hazardous or hazardous. Typically, the material is designated as non-hazardous material and can be disposed of in the municipal waste dumpster. If for some reason the material is classified as hazardous, the material will be managed in accordance with hazardous waste regulations.**

**Stack Information**

38. Emission Point Name: **EU5**

38.1. Stack Height Above Grade: **21.5 feet**

38.2. Stack Exit Diameter: **1.91 sq ft. feet**  
(Provide Stack Dimensions If Rectangular Stack)

38.3. Is a Stack Cap Present? ☐ YES ☒ NO

38.4. Stack Configuration: ☐ Vertical ☐ Horizontal ☒ Downward-Venting  
(check all that apply) ☐ Other (Specify):



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**Stack Information**

- 38.5. Stack Exit Gas Temperature: **Ambient °F**
- 38.6. Stack Exit Gas Flow Rate: **43.63 ft/sec ACFM**
- 38.7. Distance to Nearest Property Line: **150 feet**
- 38.8. Describe Nearest Obstruction: **The nearest obstruction falls beyond the property line. A vegetated border consisting of mature trees is provided by adjacent housing developments**
- 38.9. Height of Nearest Obstruction: **feet**
- 38.10. Distance to Nearest Obstruction: **feet**
- 38.11. Are Stack Sampling Ports Provided? ☐ YES ☒ NO

**Monitoring and Alarm Information**

39. Are There Any Alarms You Would Like the Department to Consider When Drafting the Permit? ☐ YES ☐ NO

*If YES, complete the rest of Question 39. If NO, proceed to Question 40.*

- 39.1. Describe the System Alarm(s):

*If there are more than five alarms, attach additional copies of this page as needed.*

	Operating Parameter Monitored	Describe Alarm Trigger	Monitoring Device or Alarm Type	Does the Alarm Initiate an Automated Response?
39.1.1.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.2.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.3.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.4.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.5.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:



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**Additional Information**

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

*If YES, complete the rest of Question 40.*

40.1. Describe: **C&W Reverse Air Central Dust Collectors (RA Series) are designed to collect dust from multiple points, such as mixer truck charging points or central mixers, silos, or other pickup points throughout your operation. Contaminated air enters the multi-compartment dust collector through the lower section and moves into the collector hopper. The RA Series provides an effective and efficient way to filter out harmful effects of dust pollution. As heavy dust particles settle out of the air stream and into the hopper bottom, dust-laden air flows up through the inside of filter bags where dust particles are trapped. Filter bags allow clean air to pass through the clean air chamber and back into the environment. Magnetic gauge provided.**



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**Baghouse Application**

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

<u><b>General Information</b></u>	
1.	Facility Name: <b>Atlantic Concrete Company, Inc.-Lewes Plant</b>
2.	Equipment ID Number: <b>EU1, EU2, EU3</b>
3.	Manufacturer: <b>Stephens Manufacturing</b>
4.	Model: <b>Stephens Ozone Super-Flow (SOS) 1020</b>
5.	Serial Number: <b>10499-20</b>
6.	Is the Baghouse Insulated? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
7.	Design Minimum Operating Temperature: <b>220 °F</b>
8.	Design Maximum Operating Temperature: <b>270 °F</b>
9.	Are Temperature Controls Provided? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If Yes, complete the rest of Question 9. If no, proceed to Question 10.</i>	
9.1.	Describe the Temperature Controls:
10.	Air Flow Through Baghouse: <input type="checkbox"/> Forced <input checked="" type="checkbox"/> Induced <input type="checkbox"/> Other (Specify):
11.	Direction of Flow Through Filters: <input type="checkbox"/> Inside Out <input checked="" type="checkbox"/> Outside In
12.	Particulate Removal Efficiency: <b>99.99 %</b>
<b>Attach the Manufacturer's Specification Sheet for the Baghouse and Particle Size Removal Efficiency Curve and basis of determination.</b>	

<u><b>Compartment Information</b></u>	
13.	Number of Compartments: <b>1</b>
14.	Number of Filters (Bags) Per Compartment: <b>3</b>
15.	Can the Compartments be Isolated for Replacement or Repair? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

<u><b>Gas Stream Information</b></u>	
16.	Maximum Inlet Volumetric Gas Flow Rate: <b>450 acfm at 220 °F</b>
17.	Maximum Outlet Volumetric Gas Flow Rate: <b>450 acfm at 270 °F</b>
18.	Dew Point at Maximum Moisture Content of Gas: <b>N/A °F</b>



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**Gas Stream Information**

19. pH of Gas Handled: **N/A**

20. Dust Characteristics: ☐ Sticky  
 (Check All That Apply) ☐ Wet  
☐ Corrosive  
☒ Dry  
☐ Other (Specify):

**Contaminant Information**

21. Percent of Each Contaminant in the Waste Gas and Removal Efficiency

If more than five Contaminants are present, attach additional copies of this page as needed.

	<u>Contaminant Name</u>	<u>Contaminant CAS Number</u>	<u>Percent of Waste Gas</u>	<u>Removal Efficiency</u>
21.1.	<b>Portland Cement</b>	<b>65997-15-1</b>	<b>100 %</b>	<b>99.99 %</b>
21.2.			%	%
21.3.			%	%
21.4.			%	%
21.5.			%	%

**Fabric Filter (Bag) Information**

22. Fabric Type: ☐ Felted ☐ Membrane ☐ Ceramic Cartridge  
☐ Woven ☐ PTFE Membrane ☒ Other (Specify): **Non-woven, pleated**  
☐ Felted-Woven ☐ Sintered Metal

23. Fabric Material: **Fiber: 100% polyester**

24. Maximum Continuous Filter Operating Temperature: **270 °F**

25. Clean Fabric Permeability: **28 scfm/ft<sup>2</sup> at ΔP 0.5 inches of water**

26. Fabric Filter (Bag) Diameter or Width: **diameter: 3.5 ft. Width: 41" x 40 inches**

27. Fabric Filter (Bag) Length: **60 7/8 inches**

28. Effective Area Per Filter: **450 square feet**

29. Minimum Effective Air to Cloth Ratio: **5:1 ratio feet/min**

30. Maximum Effective Air to Cloth Ratio: **8:1 at cartridge feet/min**

31. Design Pressure Drop Across Baghouse: **0.5 inches water**

32. Describe Determining Factor Fabric Filter Changing/Replacement: **Magnehelic gauge for inspecting conditions of cartridges. Control box is standard with each SOS vent. Panel is complete with magnetic starter, filter regulatory and magnehelic gauge. The filters are changed every 18-36 months depending upon use. A change in pressure drop will indicate the need for filter changeout. No confined areas. The SOS is designed so the filter replacement is from the outside of the unit. Personnel do not have to enter the collector to change the filter elements.**

**Attach the Manufacturer's Specification Sheet for the Fabric Filters (Bags).**



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**Filter Cleaning Information**

33. Filter Cleaning Method: ☐ Manual Cleaning ☐ Bag Collapse ☐ Reverse Air Jet  
☐ Mechanical Shakers ☐ Sonic Cleaning ☒ Pulse Jet  
☐ Pneumatic Shakers ☒ Reverse Air Flow ☐ Other (Specify):

*If Reverse Air Jet or Pulse Jet is used, complete the rest of Question 33. If not, proceed to Question 34.*

33.1. Air Pressure: **120 psi**

33.2. Describe How Air Is Supplied to System: **Cartridges are cleaned by pulse air reversing through the cartridge. Air manifold is supplied with vent. Filter regulator is included to supply "dry air". Cartridge replacement is quick and easy. No tools are required. The filters are cleaned automatically in sequence each time the cleaning cycle start button is pushed, so only a portion of the filters are off line at any given time.**

34. Describe How Filter Cleaning Is Initiated: ☒ Manual ☐ Pressure Drop  
☐ Timer ☐ Other (Specify):

**Hopper Information**

35. Is the Hopper Heated? ☐ YES ☒ NO

36. Is there a Hopper Vibrator? ☐ YES ☒ NO

37. Describe How Collected Material is Treated or Disposed of: **The SOS is designed to permit the free fall of dislodged dust to the hopper and prevent direct impingement of dust particles on the media to minimize abrasion and dust build-up. Material (including spent bags) are removed from the unit and placed in a sealed container until a waste determination is performed to ensure the material is properly classified as non-hazardous or hazardous. Typically, the material is designated as non-hazardous material and can be disposed of in the municipal waste dumpster. If for some reason the material is classified as hazardous, the material will be managed in accordance with hazardous waste regulations.**

**Stack Information**

38. Emission Point Name: **EU1, EU2, and EU3**

38.1. Stack Height Above Grade: **57' 10 7/16" feet**

38.2. Stack Exit Diameter: **2'x3' feet**  
(Provide Stack Dimensions If Rectangular Stack)

38.3. Is a Stack Cap Present? ☐ YES ☒ NO

38.4. Stack Configuration: ☐ Vertical ☐ Horizontal ☒ Downward-Venting  
(check all that apply) ☐ Other (Specify):

38.5. Stack Exit Gas Temperature: **270 °F**

38.6. Stack Exit Gas Flow Rate: **450 ACFM**

38.7. Distance to Nearest Property Line: **approximately 150 feet**

38.8. Describe Nearest Obstruction: **The nearest obstruction falls beyond the property line. A vegetated border consisting of mature trees is provided by adjacent housing developments.**

38.9. Height of Nearest Obstruction: **feet**





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**Stack Information**

38.10. Distance to Nearest Obstruction:                      **feet**

38.11. Are Stack Sampling Ports Provided?                      ☐ YES ☒ NO

**Monitoring and Alarm Information**

39. Are There Any Alarms You Would Like the Department to Consider When Drafting the Permit?                      ☒ YES ☐ NO

*If YES, complete the rest of Question 39. If NO, proceed to Question 40.*

39.1. Describe the System Alarm(s):

**If there are more than five alarms, attach additional copies of this page as needed.**

	<b>Operating Parameter Monitored</b>	<b>Describe Alarm Trigger</b>	<b>Monitoring Device or Alarm Type</b>	<b>Does the Alarm Initiate an Automated Response?</b>
39.1.1.	<b>Overfill protection provided on fill lines.</b>	<b>Established based on Mfr. recommendations.</b>	<input checked="" type="checkbox"/> Visual <input checked="" type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.2.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.3.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.4.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:
39.1.5.			<input type="checkbox"/> Visual <input type="checkbox"/> Auditory <input type="checkbox"/> Automatic (Remote Monitoring) <input type="checkbox"/> Other	<input type="checkbox"/> NO <input type="checkbox"/> YES Describe:

**Additional Information**

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



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**Additional Information**

*If YES, complete the rest of Question 40.*

- 40.1. Describe: **Each silo compartment is equipped with a Stephens-1020 jet pulse cartridge vent providing 450 sq. ft. of filter capacity for each unit. A total of three (3) SOS-1020 units will be in operation at the site, installed on top of each silo compartment.**



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**Emissions Information Application**

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

<b><u>Process Information</u></b>	
1.	Number of Individual Pieces of Process Equipment in Process:
2.	Number of Individual Control Devices in Process: <b>1</b>

<b><u>Emissions Information for First Emission Point/Stack</u></b>					
3. Emission Point Name: <b>EU1 (Pneumatic Cement Unloading to Silo)</b>					
4. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: <b>SOS-1020 Baghouse</b>					
5. Pollutant Emissions					
<b>If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.</b>					
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)		<b>35.77 lbs/hour</b>	<b>0.02 lbs/hour</b>	<b>0.01 tons/year</b>	<b>0.01 tons/year</b>
5.2. PM <sub>10</sub>		<b>23.03 lbs/hour</b>	<b>0.01 lbs/hour</b>	<b>0.01 tons/year</b>	<b>0.01 tons/year</b>
5.3. PM <sub>2.5</sub>		<b>lbs/hour</b>	<b>lbs/hour</b>	<b>tons/year</b>	<b>tons/year</b>
5.4. Sulfur Oxides (SO <sub>x</sub> )		<b>lbs/hour</b>	<b>lbs/hour</b>	<b>tons/year</b>	<b>tons/year</b>
5.5. Nitrogen Oxides (NO <sub>x</sub> )		<b>lbs/hour</b>	<b>lbs/hour</b>	<b>tons/year</b>	<b>tons/year</b>
5.6. Carbon Monoxide (CO)		<b>lbs/hour</b>	<b>lbs/hour</b>	<b>tons/year</b>	<b>tons/year</b>
5.7. Total Volatile Organic Compounds (VOCs)		<b>lbs/hour</b>	<b>lbs/hour</b>	<b>tons/year</b>	<b>tons/year</b>
5.8. Total Hazardous Air Pollutants (HAPs)		<b>lbs/hour</b>	<b>lbs/hour</b>	<b>tons/year</b>	<b>tons/year</b>



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<b>Emissions Information for First Emission Point/Stack</b>				
		lbs/hour	lbs/hour	tons/year
5.9.	CO <sub>2</sub>			tons/year
5.10.	CO <sub>2e</sub>			tons/year
5.11.				tons/year
5.12.				tons/year
5.13.				tons/year
5.14.				tons/year
5.15.				tons/year
6. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: <b>Maximum uncontrolled emission rate based on AP-42 Emission Factors, Fifth Edition, Chapter 11 - Table 11.12-2. The maximum controlled emission rate based on 99.95% removal efficiency from SOS-1020 baghouse and an annual concrete production rate of 200,000 cubic yards of concrete.</b>				
Attach the Basis of Determination or Calculations for each Emission Rate provided above.				

<b>Emissions Information for Second Emission Point/Stack</b>				
7. Emission Point Name: <b>EU2 (Fugitive Emissions from Aggregate Transfer)</b>				
8. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: <b>N/A</b>				
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	Requested Permitted Annual Emissions
9.1. Particulate Matter (PM)		1.12 lbs/hour	1.12 lbs/hour	0.64 tons/year
9.2. PM <sub>10</sub>		0.53 lbs/hour	0.53 lbs/hour	0.31 tons/year
9.3. PM <sub>2.5</sub>		lbs/hour	lbs/hour	tons/year



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<b>Emissions Information for Second Emission Point/Stack</b>				
		lbs/hour	lbs/hour	tons/year
9.4.	Sulfur Oxides (SO <sub>x</sub> )			tons/year
9.5.	Nitrogen Oxides (NO <sub>x</sub> )			tons/year
9.6.	Carbon Monoxide (CO)			tons/year
9.7.	Total Volatile Organic Compounds (VOCs)			tons/year
9.8.	Total Hazardous Air Pollutants (HAPs)			tons/year
9.9.	CO <sub>2</sub>			tons/year
9.10.	CO <sub>2a</sub>			tons/year
9.11.				tons/year
9.12.				tons/year
9.13.				tons/year
9.14.				tons/year
9.15.				tons/year
10. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: <b>Based on AP-42 Emission Factors, Fifth Edition, Chapter 11 - Table 11.12-2 and operational annual production limitation of 200,000 cu. yd.</b>				
Attach the Basis of Determination or Calculations for each Emission Rate provided above.				

<b>Emissions Information for Third Emission Point/Stack</b>	
11.	Emission Point Name: EU3 (Fugitive Emissions from Sand Transfer)
12.	Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: <b>N/A</b>
13.	Pollutant Emissions
If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.	



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<b>Emissions Information for Third Emission Point/Stack</b>					
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)		0.26 lbs/hour	0.26 lbs/hour	0.15 tons/year	0.15 tons/year
13.2. PM <sub>10</sub>		0.12 lbs/hour	0.12 lbs/hour	0.07 tons/year	0.07 tons/year
13.3. PM <sub>2.5</sub>		lbs/hour	lbs/hour	tons/year	tons/year
13.4. Sulfur Oxides (SO <sub>x</sub> )		lbs/hour	lbs/hour	tons/year	tons/year
13.5. Nitrogen Oxides (NO <sub>x</sub> )		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 <sub>2</sub>		lbs/hour	lbs/hour	tons/year	tons/year
13.10. CO <sub>2e</sub>		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: <b>Based on AP-42 Emission Factors, Fifth Edition, Chapter 11 - Table 11.12-2 and annual production limitation of 200,000 cu. yd.</b>					
Attach the Basis of Determination or Calculations for each Emission Rate provided above.					



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**Emissions Information for Fourth Emission Point/Stack**

15.	Emission Point Name: <b>EU4 (Weigh Hopper)</b>					
16.	Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: <b>Stephens Weigh Batcher Filter Vent SV-20 Baghouse</b>					
17.	Pollutant Emissions					
If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.						
	<u>Pollutant Name</u> (Specify VOCs and HAPs Individually in 17.10 through 17.18)	<u>CAS Number</u> (Not required for 17.1 through 17.10)	<u>Maximum Uncontrolled Emission Rate at Design Capacity</u>	<u>Maximum Controlled Emission Rate at Design Capacity</u>	<u>Annual Potential to Emit (PTE)</u>	<u>Requested Permitted Annual Emissions</u>
17.1.	Particulate Matter (PM)		1.37 lbs/hour	0.01 lbs/hour	0.00 tons/year	0.00 tons/year
17.2.	PM <sub>10</sub>		0.80 lbs/hour	0.003 lbs/hour	0.00 tons/year	0.00 tons/year
17.3.	PM <sub>2.5</sub>		lbs/hour	lbs/hour	tons/year	tons/year
17.4.	Sulfur Oxides (SOx)		lbs/hour	lbs/hour	tons/year	tons/year
17.5.	Nitrogen Oxides (NOx)		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 <sub>2</sub>		lbs/hour	lbs/hour	tons/year	tons/year
17.10.	CO <sub>2a</sub>		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
17.13.			lbs/hour	lbs/hour	tons/year	tons/year
17.14.			lbs/hour	lbs/hour	tons/year	tons/year



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<b>Emissions Information for Fourth Emission Point/Stack</b>				
	lbs/hour	lbs/hour	tons/year	tons/year
17.15.				
18.	Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: <b>Maximum uncontrolled emission rate based on AP-42 Emission Factors, Fifth Edition, Chapter 11 - Table 11.12-2. The maximum controlled emission rate based on 99.6% removal efficiency from SV-20 baghouse and annual production limitation.</b>			
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.				

<b>Overall Process Emissions</b>					
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)		lbs/hour	lbs/hour	tons/year	tons/year
19.2. PM <sub>10</sub>		lbs/hour	lbs/hour	tons/year	tons/year
19.3. PM <sub>2.5</sub>		lbs/hour	lbs/hour	tons/year	tons/year
19.4. Sulfur Oxides (SO <sub>x</sub> )		lbs/hour	lbs/hour	tons/year	tons/year
19.5. Nitrogen Oxides (NO <sub>x</sub> )		lbs/hour	lbs/hour	tons/year	tons/year
19.6. Carbon Monoxide (CO)		lbs/hour	lbs/hour	tons/year	tons/year
19.7. Total Volatile Organic Compounds (VOCs)		lbs/hour	lbs/hour	tons/year	tons/year
19.8. Total Hazardous Air Pollutants (HAPs)		lbs/hour	lbs/hour	tons/year	tons/year
19.9. CO <sub>2</sub>		lbs/hour	lbs/hour	tons/year	tons/year
19.10. CO <sub>2e</sub>		lbs/hour	lbs/hour	tons/year	tons/year





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<b><u>Overall Process Emissions</u></b>				
	lbs/hour	lbs/hour	tons/year	tons/year
19.12.				
19.13.				
19.14.				
19.15.				
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.				

<b><u>Minor New Source Review Information</u></b>	
21. Does the Process Have the Potential to Emit More Than Five Tons Per Year of Any Pollutant?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
22. Is the Source New or Existing? See Question 11 of AQM-1	<input checked="" type="checkbox"/> NEW <input type="checkbox"/> EXISTING
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.	

<b><u>Major New Source Review Information</u></b>	
23. Does the Process Have the Potential to Emit More Than the Significance Level for Any Pollutant? (Check All That Apply)	



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- ☐ Greater Than 25 Tons Per Year of Particulate Matter (PM)  
☐ Greater Than 15 Tons Per Year of PM<sub>10</sub>  
☐ Greater Than 10 Tons Per Year of PM<sub>2.5</sub>  
☐ Greater Than 40 Tons Per Year of Sulfur Dioxide (SO<sub>2</sub>)  
☐ Greater Than 25 Tons Per Year of Nitrogen Oxides (NO<sub>x</sub>) in New Castle and Kent County  
☐ Greater Than 100 Tons Per Year of Nitrogen Oxides (NO<sub>x</sub>) 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<sub>2e</sub>)

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:



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**Emissions Information Application**

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

<b>Process Information</b>	
1.	Number of Individual Pieces of Process Equipment in Process:
2.	Number of Individual Control Devices in Process: 1

<b>Emissions Information for First Emission Point/Stack</b>						
3. Emission Point Name: EU5 (Truck Loading - Truck Mix)						
4. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: RA120 Baghouse						
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)		54.78 lbs/hour	0.05 lbs/hour	0.03 tons/year	0.03 tons/year	
5.2. PM <sub>10</sub>		15.19 lbs/hour	0.02 lbs/hour	0.01 tons/year	0.01 tons/year	
5.3. PM <sub>2.5</sub>		lbs/hour	lbs/hour	tons/year	tons/year	
5.4. Sulfur Oxides (SO <sub>x</sub> )		lbs/hour	lbs/hour	tons/year	tons/year	
5.5. Nitrogen Oxides (NO <sub>x</sub> )		lbs/hour	lbs/hour	tons/year	tons/year	
5.6. Carbon Monoxide (CO)		lbs/hour	lbs/hour	tons/year	tons/year	
5.7. Total Volatile Organic Compounds (VOCs)		lbs/hour	lbs/hour	tons/year	tons/year	
5.8. Total Hazardous Air Pollutants (HAPs)		lbs/hour	lbs/hour	tons/year	tons/year	



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<b>Emissions Information for First Emission Point/Stack</b>					
5.9.	CO <sub>2</sub>	lbs/hour	lbs/hour	tons/year	tons/year
5.10.	CO <sub>2e</sub>	lbs/hour	lbs/hour	tons/year	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: <b>Maximum uncontrolled emission rate based on AP-42 Emission Factors, Fifth Edition, Chapter 11 - Table 11.12-2. The maximum controlled emission rate based on 99.9% removal efficiency from RA120 baghouse and annual concrete production limitation.</b>					
Attach the Basis of Determination or Calculations for each Emission Rate provided above.					

<b>Emissions Information for Second Emission Point/Stack</b>					
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 <sub>10</sub>		lbs/hour	lbs/hour	tons/year	tons/year
9.3. PM <sub>2.5</sub>		lbs/hour	lbs/hour	tons/year	tons/year



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<b>Emissions Information for Second Emission Point/Stack</b>				
	lbs/hour	lbs/hour	tons/year	tons/year
9.4. Sulfur Oxides (SO <sub>x</sub> )				
9.5. Nitrogen Oxides (NO <sub>x</sub> )				
9.6. Carbon Monoxide (CO)				
9.7. Total Volatile Organic Compounds (VOCs)				
9.8. Total Hazardous Air Pollutants (HAPs)				
9.9. CO <sub>2</sub>				
9.10. CO <sub>2e</sub>				
9.11.				
9.12.				
9.13.				
9.14.				
9.15.				
10. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: <b>Based on AP-42 Emission Factors, Fifth Edition, Chapter 11 - Table 11.12-2</b>				
Attach the Basis of Determination or Calculations for each Emission Rate provided above.				

<b>Emissions Information for Third Emission Point/Stack</b>
11. Emission Point Name:
12. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack:
13. Pollutant Emissions
If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.



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<b>Emissions Information for Third Emission Point/Stack</b>					
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 <sub>10</sub>		lbs/hour	lbs/hour	tons/year	tons/year
13.3. PM <sub>2.5</sub>		lbs/hour	lbs/hour	tons/year	tons/year
13.4. Sulfur Oxides (SO <sub>x</sub> )		lbs/hour	lbs/hour	tons/year	tons/year
13.5. Nitrogen Oxides (NO <sub>x</sub> )		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 <sub>2</sub>		lbs/hour	lbs/hour	tons/year	tons/year
13.10. CO <sub>2e</sub>		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:					
Attach the Basis of Determination or Calculations for each Emission Rate provided above.					



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<b>Emissions Information for Fourth Emission Point/Stack</b>					
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 <sub>10</sub>		lbs/hour	lbs/hour	tons/year	tons/year
17.3. PM <sub>2.5</sub>		lbs/hour	lbs/hour	tons/year	tons/year
17.4. Sulfur Oxides (SO <sub>x</sub> )		lbs/hour	lbs/hour	tons/year	tons/year
17.5. Nitrogen Oxides (NO <sub>x</sub> )		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 <sub>2</sub>		lbs/hour	lbs/hour	tons/year	tons/year
17.10. CO <sub>2e</sub>		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
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



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**Emissions Information for Fourth Emission Point/Stack**

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)		93.31 lbs/hour	1.46 lbs/hour	0.84 tons/year	0.84 tons/year
19.2. PM <sub>10</sub>		39.68 lbs/hour	0.69 lbs/hour	0.39 tons/year	0.39 tons/year
19.3. PM <sub>2.5</sub>		lbs/hour	lbs/hour	tons/year	tons/year
19.4. Sulfur Oxides (SO <sub>x</sub> )		lbs/hour	lbs/hour	tons/year	tons/year
19.5. Nitrogen Oxides (NO <sub>x</sub> )		lbs/hour	lbs/hour	tons/year	tons/year
19.6. Carbon Monoxide (CO)		lbs/hour	lbs/hour	tons/year	tons/year
19.7. Total Volatile Organic Compounds (VOCs)		lbs/hour	lbs/hour	tons/year	tons/year
19.8. Total Hazardous Air Pollutants (HAPs)		lbs/hour	lbs/hour	tons/year	tons/year
19.9. CO <sub>2</sub>		lbs/hour	lbs/hour	tons/year	tons/year
19.10. CO <sub>2e</sub>		lbs/hour	lbs/hour	tons/year	tons/year
19.12.		lbs/hour	lbs/hour	tons/year	tons/year





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<b>Overall Process Emissions</b>				
	lbs/hour	lbs/hour	tons/year	tons/year
19.13.				
19.14.				
19.15.				
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.				

<b>Minor New Source Review Information</b>	
21. Does the Process Have the Potential to Emit More Than Five Tons Per Year of Any Pollutant?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
22. Is the Source New or Existing? See Question 11 of AQM-1	<input checked="" type="checkbox"/> NEW <input type="checkbox"/> EXISTING
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.	

<b>Major New Source Review Information</b>	
23. Does the Process Have the Potential to Emit More Than the Significance Level for Any Pollutant? (Check All That Apply)	
<input type="checkbox"/> Greater Than 25 Tons Per Year of Particulate Matter (PM) <input type="checkbox"/> Greater Than 15 Tons Per Year of PM <sub>10</sub> <input type="checkbox"/> Greater Than 10 Tons Per Year of PM <sub>2.5</sub> <input type="checkbox"/> Greater Than 40 Tons Per Year of Sulfur Dioxide(SO <sub>2</sub> ) <input type="checkbox"/> Greater Than 25 Tons Per Year of Nitrogen Oxides (NO <sub>x</sub> ) in New Castle and Kent County <input type="checkbox"/> Greater Than 100 Tons Per Year of Nitrogen Oxides (NO <sub>x</sub> ) in Sussex County <input type="checkbox"/> Greater Than 100 Tons Per Year of Carbon Monoxide (CO) <input type="checkbox"/> Greater Than 25 Tons Per Year of Total Volatile Organic Compounds (VOCs) in New Castle and Kent County <input type="checkbox"/> Greater Than 50 Tons Per Year of Total Volatile Organic Compounds (VOCs) in Sussex County <input type="checkbox"/> Greater Than 75,000 Tons Per Year of Equivalent Carbon Dioxide (CO <sub>2e</sub> )	



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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: