ENVIVA PELLETS HAMLET, LLC 2017 P/N 10365 RICHMOND COUNTY

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Martin Stranger	P/		EPTANCE CHECKLIS	T. C. Lander M. C.		
Acknowledgement Letter	• • Already Sent		O Please Send			
Initial Event(s):	TV-Ack./Complete	add info	☐ State Ack. Letter due ☐ State App. not accepte	ed – add info request		
	nformation:	S41 - 193		Acceptance Chec	k List:	
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VEE Updated (by Engineer):	<u>4-6.17</u> TVEE V	erified: 4	6 Supervise	or: MP	Chief:	4/7/2017
Contraction of the second	PAR	T VI - CLOS	SEOUT INFORMATION	tal mile	017	
Regulatio NESHAPS/MACT	ns Applicable to This Appli	ication (indic	ate all new regulations):	Contraction of the second	Permit Class	Information
NESHAPS/GACT NSPS 2D .1100 2Q .0711 112(j)/112(d)	 PSD/NSR PSD/NSR Avoidance Existing Source RACT New Source RACT/LA RACT Avoidance RACT/LAER Added F *(Notify Connie Horne) 	AER	Toxics/Combustion So SIP Regulations (list al		Before Before Small Syn. Minor Title V Proh. Small General	After E Title V
AP Major Status (after)	Major 🗆 Minor		□ Not Determined			
	Z Major □ Minor					
D or NSR Status (after)	ple Permits at Facility	🗆 Multi-Si	te Permit 🛛 Reco	veled Oil Condition		
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D or NSR Status (after) scellaneous	ple Permits at Facility	Effective:		Exp	piration: 2-23	8-21



Air Quality ENVIRONMENTAL QUALITY

April 7, 2017

ROY COOPER

MICHAEL S. REGAN Secretary

MICHAEL A. ABRACZINSKAS Acting Director

Mr. Norb Hintz Senior Vice President and Chief Engineer Enviva Pellets Hamlet, LLC 7200 Wisconsin Avenue, Suite 1000 Bethesda, Maryland 20814

Dear Mr. Hintz:

SUBJECT: Air Quality Permit No. 10365R01 Facility ID: 7700096 Enviva Pellets Hamlet, LLC Hamlet, North Carolina Richmond County PSD Status: Major Fee Class: Title V

In accordance with your request for an administrative amendment received February 14, 2017 we are forwarding herewith Air Quality Permit No. 10365R01 to Enviva Pellets Hamlet, LLC, 1039 North Highway 177, Hamlet, North Carolina, authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT."

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

State of North Carolina | Environmental Quality | Air Quality 217 W. Jones Street | 1641 Mail Service Center | Raleigh, North Carolina 27699-1641 919 707 8400

Mr. Norb Hintz April 7, 2017 Page 2

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of GS 143-215-108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.

Richmond County has triggered increment tracking under PSD for NOx, PM-10, and PM-2.5. However, this administrative amendment does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from April 7, 2017 until February 28, 2021, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein. Should you have any questions concerning this matter, please contact Kevin Godwin at (919) 707-8480.

Sincerely yours,

WMD. W.M. William D. Willets, P.E., Chief, Permitting Section

Division of Air Quality, NCDENR

c: EPA Region 4 Steven Vozzo, Supervisor, Fayetteville Regional Office Shannon Vogel, Stationary Source Compliance Branch **Central Files** Connie Horne (Cover letter only)

ATTACHMENT

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Emission Source ID No.	Emission Source Description	
IES-GWHS	Green wood handling and sizing operations	
IES-DWHS	Dried wood handling and sizing operations	
IES-TK-1	Diesel fuel storage tank (up to 2,500 gallons capacity)	
IES-TK-2	Diesel fuel storage tank (up to 1,000 gallons capacity)	
IES-TK-3	Diesel fuel storage tank (up to 2,500 gallons capacity)	
IES-GWSP-1 and IES-GWSP-2	Green wood storage piles	
IES-DEBARK-1	De-barker	
IES-GWFB	Green wood fuel bin	

Insignificant Activities per 15A NCAC 02Q .0503(8)

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.

2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit".

3. For additional information regarding the applicability of GACT see the DAQ page titled "The Regulatory Guide for Insignificant Activities/Permits Exempt Activities". The link to this site is as follows: http://daq.state.nc.us/permits/insig/



North Carolina of Environmental Quality Air Quality

AIR QUALITY

PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
10365R01	1036R00	April 7, 2017	February 28, 2021

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 2D and 2Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 2Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee:

Facility ID:

Facility Site Location: City, County, State, Zip:

Mailing Address: City, State, Zip:

Application Number: Complete Application Date:

Primary SIC Code: Division of Air Quality, Regional Office Address: **Enviva Pellets Hamlet, LLC**

7700096

1039 North NC Highway 177 Hamlet, Richmond County, North Carolina, 28345

7200 Wisconsin Avenue Bethesda, Maryland 20814

7700096.17A February 14, 2017

2499 Fayetteville Regional Office Systel Building 225 Green Street, Suite 714 Fayetteville, North Carolina, 28301

SECTION 1: PERMITTED EMISSION SOURCE (S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE (S) AND APPURTENANCES

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

- 2.1- Emission Source(s) Specific Limitations and Conditions (Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
- 2.2- Multiple Emission Source(s) Specific Limitations and Conditions (Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
- SECTION 3: GENERAL PERMIT CONDITIONS

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SECTION 1- PERMITTED EMISSION SOURCE (S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE (S) AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-CHIP-1 PSD	Log chipping	N/A	N/A
ES-GHM-1 and ES- GHM-2 PSD	Green wood hammermills	CD-GHM- CYC1 and CD-GHM- CYC2	Two simple cyclones (54 inches in diameter each)
ES- BARKHOG PSD	Bark hog	N/A	N/A
ES-DRYER PSD 2D .1112 Case-by- case MACT	Wood-fired direct heat drying system (250.4 million Btu per hour heat input)	CD-DC1, CD-DC2, CD-DC3, CD-DC4, and CD- WESP	Four simple cyclones (132 inches in diameter each) in series with one wet electrostatic precipitator (29,904 square feet of collector plate area)
ES-HM-1 through ES- HM-8 PSD 2D.1112 Case-by-case MACT	Eight (8) hammermills	CD-HM- CYC-1 through CD-HM- CYC-8, and CD- HM-BF1 through CD-HM- BF8	Eight (8) simple cyclones (96 inches in diameter each) in series with eight (8) bagfilters (2,168 square feet of filter area each)
ES-HMA & ES-PFB PSD 2D .1112 Case-by-case MACT	Hammermill area and Pellets fines bin	CD-PFB- BV	One bagfilter (1,520 square feet of filter area)
ES-PMFS PSD	Pellet mill feed silo	CD-PMFS- BV	One bin vent filter (377 square feet of filter area)
ES-PSTB PSD	Pellet sampling transfer bin	CD-DC- BV3	One bin vent filter (377 square feet of filter area)

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Emission	Emission Source Description	Control	Control Device Description
Source		Device	
ID No.		ID No.	
ES-CLR-1	Six (6) pellet coolers	CD-CLR-1	Six (6) simple cyclones (54 inches
through ES-		through	in diameter) installed one each on
CLR-6		CD-CLR-6	the coolers
PSD			
2D .1112			
Case-by-case			
MACT			
ES-FPH, ES-PB-1	Finished product handling, eight	CD-FPH-	One bagfilter (4,842 square feet of
through ES-	(8) pellet load-out bins, and	BF	filter area)
PB-8, ES-	three (3) pellet mill loadouts		
PL-1 and			
ES-PL-3			
PSD			
ES-DWH			
PSD WII	Dried and sized wood handling	CD-DC-	Two bin vent filters (377 square
1 SD		BV1 and	feet of filter area each)
		CD-DC-	
700 001		BV2	
ES-GN	Diesel-fired emergency	N/A	N/A
PSD	generator (250 brake		
MACT	horsepower)		
Subpart	1 /		
ZZZZ			
NSPS			
Subpart IIII			
ES-FWP	Diesel-fired fire emergency	N/A	N/A
PSD	water pump (250 brake		
MACT	horsepower)		
Subpart ZZZZ			
NSPS			
Subpart IIII			

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source(s) and Control Devices(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, recordkeeping, and reporting requirements as specified herein:

A. Log Chipping (ID No. ES-CHIP-1), Bark Hog (ID No. ES-BARKHOG), Wood-fired direct heat drying system (ID No. ES-DRYER), Hammermills (ID Nos. ES-GHM-1 and GHM-2, ES-HM-1 through HM-8), Hammermill Area Filter (ID No. ES-HMA), Pellet Mill Feed Silo (ID No. ES-

PMFS), Pellet Sampling and Transfer Bin (ID No. ES-PSTB), Pellet Coolers (ID Nos. ES-CLR-1 through CLR-6), Pellets Fines Bin (ID No. ES-PFB), Finished Product Handling (ID No. ES-FPH), Pellet Load-out Bins (ID Nos. ES-PB-1 through PB-8), and Pellet Mill Load-out (ID No. ES-PL-1 through PL-3), Dried and Sized Wood Handling (ID No. ES-DWH)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$ \begin{array}{ll} E = 4.10 \ x \ P^{0.67} & \mbox{for } P < 30 \ tph \\ E = 55 \ x \ P^{0.11} - 40 & \mbox{for } P \ge 30 \ tph \end{array} $	15A NCAC 02D .0515
	where, E = allowable emission rate (lb/hr) P = process weight rate (tph)	
Sulfur dioxide	2.3 pounds per million Btu	15A NCAC 02D .0516
Visible emissions	20 percent opacity when averaged over a 6-minute period	15A NCAC 02D .0521
HAPS ·	See Section 2.1 A.4.	15A NCAC 02D .1112
		[§ 112(g) Case-by-case MACT]
PM/PM- 10/PM-2.5,	BACT Limits, See Section 2.2 A.2.	15A NCAC 02D .0530
NOx		
VOC		
CO		
GHG		

The following table provides a summary of limits and standards for the emission source(s) described above:

1. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from these sources shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 02D .0515(a)]

$$\begin{split} & E = 4.10 \ x \ P^{\ 0.67} & \mbox{for } P < 30 \ tph \\ & E = 55 \ x \ P^{0.11} - 40 & \mbox{for } P \ge 30 \ tph \end{split}$$

Where E = allowable emission rate in pounds per hour P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0308(a)]

b. Under the provisions of NCGS 143-215.108, the Permittee shall test the wet electrostatic precipitator (ID No. CD-WESP) for total suspended particulate (TSP) in accordance with a testing protocol approved by the DAQ. Testing shall be completed and the results submitted within 180 days of commencement of operation unless an alternate date is approved by the DAQ.

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Monitoring/Recordkeeping [15A NCAC 02Q .0308(a)]

- c. The Permittee shall maintain production records such that the process rates "P" in tons per hour, as specified by the formulas contained above (or the formulas contained in 15A NCAC 2D .0515) can be derived, and shall make these records available to a DAQ authorized representative upon request.
- d. Particulate matter emissions from the wood-fired dryer (ID No. ES-DRYER) shall be controlled by four (4) cyclones (ID Nos. CD-DC-1 through DC-4) in series with one wet electrostatic precipitator (ID No. CD-WESP). Particulate matter emissions from the hammermills (ID Nos. ES-GHM-1 and 2, ES-HM-1 through 8) shall be controlled by cyclones and bagfilters (ID Nos. CD-GMH-CYC1 and CD-GHM-CYC2, CD-HM-CYC-1 through 8, and CD-HM-BF-1 through 8). Particulate matter emissions from the hammermill area (ID No. ES-HMA) and the pellets fines bin (ID No. ES-PFB) shall be controlled by a bin vent filter (ID No. CD-PFB-BV). Particulate matter emissions from the pellet mill feed silo (ID No. ES-PMFS) shall be controlled by a bin vent filter (ID No. CD-PFB-BV). Particulate matter emissions from the pellet sampling and transfer bin (ID No. ES-PSTB) shall be controlled by a bin vent filter (ID No. CD-DC-BV3). Particulate matter emissions from the pellet coolers (ID Nos. ES-CLR-1 through 6) shall be controlled by cyclones (ID Nos. CD-CLR-1 through 6). Particulate matter emissions from finished product handling (ID No. ES-FPH), pellet mill load-out bins (ID Nos. ES-PB-1 through 8), and pellet mill load-out (ID No. ES-PL-1 through 3) shall be controlled by a bagfilter (ID No. CD-FPH-BF).Particulate matter emissions from the dried and sized wood handling (ID No. ES-DWH) shall be controlled by two bin vent filters (ID Nos. CD-DC-BV1 and BV2).

For bagfilters, bin vent filters, and cyclones:

To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:

- i. a monthly visual inspection of the system ductwork and material collection unit for leaks.
- ii. an annual (for each 12-month period following the initial inspection) internal inspection of the bagfilters' structural integrity.

For WESP:

To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:

The Permittee shall establish the minimum primary voltage and minimum current within the first 30 days following the commencement of operation of the dryer. To assure compliance and effective operation of the wet electrostatic precipitator, the Permittee shall monitor and record the primary voltage and minimum current through the precipitator for each day of the calendar year period that the dryer system is operated. The Permittee shall be allowed three (3) days of absent observations per semi-annual period.

- e. The results of inspection and maintenance shall be maintained in a log (written or electronic format) onsite and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.

Reporting

f. The Permittee shall submit the results of any maintenance performed on the WESP, cyclones, bagfilters, and bin vent filters within 30 days of a written request by the DAQ.

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from these sources shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

Testing [15A NCAC 02Q .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17. found in Section 3.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0308(a)]

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from firing biomass in the dryer system.

3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from these sources shall not be more than 20 percent opacity when averaged over a sixminute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 02D .0521 (d)]

Testing [15A NCAC 02Q .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17. found in Section 3.

Monitoring [15A NCAC 02Q .0308(a)]

- c. To assure compliance, once a month the Permittee shall observe the emission points of this source for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. The Permittee shall establish "normal" for the source in the first 30 days following the effective date of the permit. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.3. a. above.

Recordkeeping [15A NCAC 02Q .0308(a)]

- d. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

Reporting [15A NCAC 02Q .0308(a)]

e. No reporting is required.

4. 15A NCAC 02D .1112 National Emissions Standards for Hazardous Air Pollutants, 112(g) Case-by-Case Maximum Achievable Control Technology – For the wood pellet mill dryer (ID No. ES-DRYER), the Permittee shall use a low HAP emitting dryer design not requiring add-on control.

Testing [15A NCAC 02D .0530]

a. Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall establish emission factors by conducting an initial performance test on the dryer system for formaldehyde, methanol, acetaldehyde, and propionaldehyde utilizing EPA reference methods, as in effect on the date of permit issuance, contained in 40 CFR 60, Appendix A, or 40 CFR 63 AND in accordance with a testing protocol (using testing protocol submittal form) approved by the Division of Air Quality. The sum of the above HAPs will be multiplied by a correction factor of 1.04 to determine total HAPs for the dryer system.

Initial testing shall be completed and the results submitted within 180 days of commencement of operation unless an alternate date is approved by the DAQ.

b. <u>Monitoring/Recordkeeping/Reporting</u> [15A NCAC 02Q .0308(a)] No monitoring, recordkeeping, or reporting is required.

B. Emergency Generator (ID No. ES-GN) and Fire Water Pump (ID No. ES-FWP)

The following table provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air	National Emission Standards for Hazardous Air	15A NCAC 02D .1111
pollutants (HAP)	Pollutants for Stationary Reciprocating Internal	(40 CFR 63, Subpart
	Combustion Engines (RICE)	ZZZZ)
	No additional requirements per 63.6590(c)	
NMHC and NOx,	0.20 g/kW for PM; 3.5 g/kW for CO; and 4 g/kW	15A NCAC 02D .0524
CO, PM	for NOx + NMHC	(40 CFR 60, Subpart IIII)

1. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from these sources shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 02D .0516]

Testing [15A NCAC 02Q .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17. found in Section 3.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0308(a)]

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of diesel fuel in these sources.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from these sources shall not be more than 20 percent opacity when averaged over a sixminute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 02D .0521(d)]

Testing [15A NCAC 02Q .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17. found in Section 3.

Monitoring [15A NCAC 02Q .0308(a)]

c. To assure compliance, once a month the Permittee shall observe the emission points of these sources for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. The Permittee shall establish 'normal' for the sources in the first 30 days following commencement of operation. If visible emissions from these sources are observed to be above normal, the Permittee shall either:

i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or

ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 F.2. a. above.

Recordkeeping [15A NCAC 02Q .0308(a)]

- d. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

Reporting [15A NCAC 02Q .0308(a)]

e. No reporting is required.

3. 15A NCAC 02D .0524 NEW SOURCE PERFORMANCE STANDARDS [40 CFR 60 Subpart IIII]

a. The provisions of this subpart are applicable to manufacturer, owners, and operators of stationary compression ignition (CI), reciprocating internal combustion engines (RICE). The Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, recordkeeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards (NSPS)" as promulgated in 40 CFR Part 60 Subpart IIII, including Subpart A "General Provisions."

Emission Standards

Emergency and Fire Pump Engines

b. Pursuant to 40 CFR §60.4205(b), owners and operators must comply with the following emission standards:

Pollutant	Emission Limit (g/kW-hr)	Emission Limit (g/bhp-hr)
CO	3.5	2.6
PM	0.2	0.15
NMHC + NOx	4.0	3.0

Monitoring [15A NCAC 02Q .0308(a)]

c. The Permittee shall operate the stationary ICE of emergency generators according to the requirements in paragraphs (f)(1) through (3) of §60.4211. In order for the engine to be considered an emergency stationary ICE under this Subpart, any operation other than emergency operation, maintenance and

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testing, emergency demand response, and operation in nonemergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of 60.4211, is prohibited. If the Permittee does not operate the engine according to the requirements in paragraphs (f)(1) through (3) of 60.4211, the engine will not be considered an emergency engine under this Subpart and shall meet all requirements for non-emergency engines.

- i. There is no time limit on the use of emergency stationary ICE in emergency situations.
- ii. The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of §60.4211 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of §60.4211 counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
 (A) Further the formula of the 100 hours per calendar year allowed by this paragraph (f)(2).
 - (A) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
 - (B) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
 - (C) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- iii. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of §60.4211, the 50 hours per calendar year for nonemergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
 - (A) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
 - (AA) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
 - (BB) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - (CC) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 - (DD) The power is provided only to the facility itself or to support the local transmission and distribution system.
 - (EE) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[§60.4211(f]

d. Pursuant to 40 CFR §60.4206, owners and operators must operate and maintain the stationary RICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

Fuel Requirements for Owners and Operators

- e. Pursuant to 40 CFR §60.4207, owners and operators must use fuel with a maximum sulfur content of 15 ppmw and a cetane index of at least 40.
- f. Pursuant to 40 CFR §60.4209(a), the owner or operator must install a non-resettable hour meter prior to startup of the engines.

Recordkeeping [15A NCAC 02Q .0308(a)]

g. Starting with the emergency engine model year 2011, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the Permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee shall record the time of operation of the engine was in operation during that time. [§60.4214(b)]

4. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR 63 Subpart ZZZZ)

- a. Pursuant to §63.6580, Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.
- b. Pursuant to §63.6590(c), a new emergency stationary RICE with a site rating of less than or equal to 500 horsepower located at a major source must meet the requirements of 40 CFR Part 60, Subpart IIII, for compression ignition engines. No further requirements apply for such engines under this part.

2.2- Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide Emission Sources

The following table provides a summary of limits and standards for the emission source(s) describe above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Fugitive dust	Minimize fugitive dust beyond property boundary	15A NCAC 02D .0540
PM/PM- 10/PM-2.5, NOx, CO, VOC, and GHG	BACT Limits	15A NCAC 02D .0530

1. Fugitive Dust Control Requirement [15A NCAC 02D .0540] - STATE ENFORCEABLE ONLY

As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

2. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements in accordance with 15A NCAC 02D .0530, "Prevention of Significant Deterioration of Air Quality" as promulgated in 40 CFR 51.166. [15A NCAC 02D .0530]
- b. The following emission limits shall not be exceeded except during periods of start-up, shut-down, or malfunction. [15A NCAC 02D .0530]:

	DIN ACTION	and the second sec	WT . 94 .	A	///]
Unit	Pollutant	BACT Limit*	Units	Averaging Period	Technology
Dryer system	NOx	0.20	lb/MMBtu	3-hour	Good Combustion Practices/low NOx burners
	PM PM10/2.5	0.105 (filterable only)	lb/ODT	3-hour	Cyclones/WESP
•	СО	0.21	lb/MMBtu	3-hour	Process Design
	VOC**	1.07	lb/ODT	3-hour	Process Design
	GHG	229,828	tpy (CO ₂ e)	Annual	Good Operating Practices
Green Wood Hammermills	PM/PM10/2.5	0.022/0.0057/0.0007 (filterable only)	gr/dscf	3-hour	Cyclones
	VOC**	0.27	lb/ODT	3-hour	Good operating and maintenance procedures
Dry Hammermills	PM/PM10/2.5	0.004/0.004/0.000014 (filterable only)	gr/dscf	3-hour	Cyclones & Bagfilter
	VOC**	0.24	lb/ODT	3-hour	Process Design
Pellet Mill Feed Silo	PM/PM10/2.5	0.004 (filterable only)	gr/dscf	3-hour	Bin vent filter
Hammermill Area and Pellet Mill Fines Bin	PM/PM10/2.5	0.004 (filterable only)	gr/dscf	3-hour	Bin vent filter
Pellet Sampling and Transfer bin	PM/PM10/2.5	0.004 (filterable only)	gr/dscf	3-hour	Bin vent filter
Dried and Sized Wood Handling	PM/PM10/2.5	0.004 (filterable only)	gr/dscf	3-hour	Bin vent filter
Final Product	PM/PM10/2.5	0.004/0.004/0.000014	gr/dscf	3-hour	Bagfilter
Handling		(filterable only)	_		~
Pellet Coolers	PM/PM10/2.5	0.022/0.0057/0.0007 (filterable only)	gr/dscf	3-hour	Cyclones
	VOC**	0.85	lb/ODT	3-hour	Process Design
Log Bark Hog	VOC	N/A	N/A	N/A	Fugitive

Unit	Pollutant	BACT Limit*	Units	Averaging Period	Technology
Chipper	VOC	N/A	N/A	N/A	Fugitive
Green Wood Handling	PM/PM10/2.5	N/A	N/A	N/A	Inherent Moisture content
Storage Piles	PM/PM10/2.5	N/A	N/A	N/A	Inherent Moisture content
	VOC	N/A	N/A	N/A	Fugitive
Road Dust	PM/PM10/2.5	N/A	N/A	N/A	Paving & Water Spray
Emergency	CO	2.6	g/bhp-hr		Design and Good
engines	NMHC+NOx	3.0	g/bhp-hr		operating practices
	PM	0.15 (filterable only)	g/bhp-hr		NSPS Certification
Storage tanks	VOC	Good Operation Practices	N/A	N/A	Good operating practices

* BACT emission limits shall apply at all times except the following: Emissions resulting from start-up, shutdown or malfunction above those given in the table above are permitted provided that optimal operational practices are adhered to and periods of excess emissions are minimized.

** The VOC limit is expressed as alpha pinene basis per the procedures in EPA OTM 26.

Testing [15A NCAC 02D .0530]

c. Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall demonstrate compliance with the BACT emission limits by conducting performance test on the dryer system, the pellet coolers, and the greenwood hammermills as specified below utilizing EPA reference methods, as in effect on the date of permit issuance, contained in 40 CFR 60, Appendix A, 40 CFR 63, and/or OTM 26 AND in accordance with a testing protocol (using testing protocol submittal form) approved by the Division of Air Quality, as follows:

Unit	Pollutant	Testing
Dryer system	NOx	Annually
	PM/PM10/PM2.5	Annually
	VOC	Initial Only
	CO	Initial Only
One Pellet cooler	VOC	Initial Only
One Green wood hammermill	VOC	Initial Only

Initial testing shall be completed and the results submitted within 180 days of commencement of operation unless an alternate date is approved by the DAQ.

If the results of two consecutive NOx and/or PM/PM10/PM2.5 compliance tests are less than 80% of the above BACT limit, future testing shall be required once per five years (within 60 months of the previous test date). If the results of either test for either pollutant exceed 80% of the standard, then annual testing shall resume for the respective pollutant until two consecutive tests per pollutant are less than 80% of the above listed BACT limit.

Monitoring/Recordkeeping/Reporting [15ANCAC 02Q .0308(a)]

d. The Permittee shall not process more than 537,625 oven-dried tons (ODT) of pellets per year. The Permittee shall not process more than 75% softwood on a 12-month rolling average basis. The process rate and hardwood/softwood mix shall be recorded in a monthly log kept on site. Calculations and the total amount of NOx, filterable PM, CO, and VOC emissions shall be recorded monthly in a log (written or electronic format) kept on site and made available to DAQ personnel upon request.

- e. For the dryer system, GHG (CO₂e) emissions shall be calculated on a monthly basis and compliance demonstrated using the applicable Part 98 emission factors. Compliance shall be documented on a 12 month rolling basis.
- f. No reporting is required.
- g. <u>REPORTING REQUIREMENT</u> Within 30 days of beginning commercial operation, the Permittee shall notify, in writing, the Regional Office of the date the facility began commercial operation. Pursuant to 15A NCAC 2Q .0500, the Permittee shall have one year from the date of beginning commercial operation to submit a complete Title V application to the Regional Supervisor.

SECTION 3 - GENERAL CONDITIONS

1. In accordance with G.S. 143-215.108(c)(1), <u>TWO COPIES OF ALL DOCUMENTS, REPORTS, TEST</u> <u>DATA, MONITORING DATA, NOTIFICATIONS, REQUESTS FOR RENEWAL, AND ANY OTHER</u> <u>INFORMATION REQUIRED BY THIS PERMIT</u> shall be submitted to the:

Steven Vozzo Regional Air Quality Supervisor North Carolina Division of Air Quality Fayetteville Regional Office Systel Building 225 Green Street, Suite 714 Fayetteville, NC 28301-5043 (910) 433-3300

For identification purposes, each submittal should include the facility name as listed on the permit, the facility identification number, and the permit number.

- <u>RECORDS RETENTION REQUIREMENT</u> In accordance with 15A NCAC 2D .0605, any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. These records must be kept on site for a minimum of 2 years, unless another time period is otherwise specified.
- 3. <u>ANNUAL FEE PAYMENT</u> Pursuant to 15A NCAC 2Q .0203(a), the Permittee shall pay the annual permit fee within 30 days of being billed by the DAQ. Failure to pay the fee in a timely manner will cause the DAQ to initiate action to revoke the permit.
- 4. <u>EQUIPMENT RELOCATION</u> In accordance with 15A NCAC 2Q .0301, a new air permit shall be obtained by the Permittee prior to establishing, building, erecting, using, or operating the emission sources or air cleaning equipment at a site or location not specified in this permit.
- <u>REPORTING REQUIREMENT</u> In accordance with 15A NCAC 2Q .0309, any of the following that would result in previously unpermitted, new, or increased emissions must be reported to the Regional Supervisor, DAQ:
 - a. changes in the information submitted in the application regarding facility emissions;
 - b. changes that modify equipment or processes of existing permitted facilities; or

c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

- 6. In accordance with 15A NCAC 2Q .0309, this permit is subject to revocation or modification by the DAQ upon a determination that information contained in the application or presented in the support thereof is incorrect, conditions under which this permit was granted have changed, or violations of conditions contained in this permit have occurred. In accordance with G.S. 143-215.108(c)(1), the facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air cleaning device(s) and appurtenances.
- 7. In accordance with G.S. 143-215.108(c)(1), this permit is nontransferable by the Permittee. Future owners and operators must obtain a new air permit from the DAQ.
- 8. In accordance with G.S. 143-215.108(c)(1), this issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of State law which have occurred prior to the effective date of this permit.
- 9. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with all applicable requirements of any Federal, State, or Local water quality or land quality control authority.
- 10. In accordance with 15A NCAC 2D .0605, reports on the operation and maintenance of the facility shall be submitted by the Permittee to the Regional Supervisor, DAQ at such intervals and in such form and detail as may be required by the DAQ. Information required in such reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and preventive maintenance schedules.
- 11. A violation of any term or condition of this permit shall subject the Permittee to enforcement pursuant to G.S. 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.
- 12. Pursuant to North Carolina General Statute 143-215.3(a)(2), no person shall refuse entry or access to any authorized representative of the DAQ who requests entry or access for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
- 13. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with any applicable Federal, State, or Local requirements governing the handling, disposal, or incineration of hazardous, solid, or medical wastes, including the Resource Conservation and Recovery Act (RCRA) administered by the Division of Waste Management.
- 14. <u>PERMIT RETENTION REQUIREMENT</u> In accordance with 15A NCAC 2Q .0110, the Permittee shall retain a current copy of the air permit at the site. The Permittee must make available to personnel of the DAQ, upon request, the current copy of the air permit for the site.
- 15. <u>CLEAN AIR ACT SECTION 112(r) REQUIREMENTS</u> Pursuant to 15A NCAC 2D .2100 "Risk Management Program," if the Permittee is required to develop and register a risk management plan pursuant

to Section 112(r) of the Federal Clean Air Act, then the Permittee is required to register this plan with the USEPA in accordance with 40 CFR Part 68.

- 16. <u>PREVENTION OF ACCIDENTAL RELEASES GENERAL DUTY</u> Pursuant to Title I Part A Section 112(r)(1) of the Clean Air Act "Hazardous Air Pollutants Prevention of Accidental Releases Purpose and General Duty," although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release. **This condition is federally-enforceable only.**
- 17. <u>GENERAL EMISSIONS TESTING AND REPORTING REQUIREMENTS</u> If emissions testing is required by this permit, or the DAQ, or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow all DAQ procedures including protocol approval, regional notification, report submittal, and test results approval.

Permit issued this the 7th day of April, 2017

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

William D. Willets, P.E., Chief, Permitting Section Division of Air Quality, NCDENR By Authority of the Environmental Management Commission

Air Permit No. 10365R01

NORTH CAROLINA DIVISION OF AIR QUALITY Application Review					Region: Fayettevil County: Richmond NC Facility ID: 77	1 700096	
Issue Date: April 7, 2017	* *			2	Inspector's Name: Date of Last Inspe Compliance Code:		
	Facility	Data			Permit Applica	bility (this application only)	
Applicant (Facility's Na	ne): Enviva Pello	ets Hamlet, Ll	LC		SIP: 15A NCAC 0 NSPS: N/A	2Q .0316	
Facility Address:	~				NESHAP: N/A		
Enviva Pellets Hamlet, LL					PSD: N/A	T/A	
1039 North NC Highway Hamlet, NC 28345	1//				PSD Avoidance: N NC Toxics: N/A	VA	
11aiiiiot, NC 20040					112(r): N/A		
SIC: 2499 / Wood Produc	ts, Nec				Other: N/A		
NAICS: 321999 / All Ot	her Miscellaneou	s Wood Produ	ict Manufactur	ing			
Facility Classification: B Fee Classification: Befor							
Contact Data					Application Data		
Facility Contact	Authorized	Contact	Technical	Contact	Application Number: 7700096.17A		
Joe Harrell Corporate EHS Manager (252) 209-6032 142 NC Route 561 East Ahoskie, NC 27910	Norb Hintz Vice President Engineering (301) 657-556' 7200 Wisconsi Bethesda, MD	7 n Avenue	Joe Harrell Corporate EHS Manager (252) 209-6032 142 NC Route 561 East Ahoskie, NC 27910		Application Number: 7/00096.17A Date Received: 02/14/2017 Application Type: Admin. Amendment Application Schedule: State Existing Permit Data Existing Permit Number: 10365/R00 Existing Permit Issue Date: 03/29/2016 Existing Permit Expiration Date: 02/28/2021		
Total Actual emissions	in TONS/YEAR	•	_				
CY SO2	NOX	VOC	со	PM10	Total HAP	Largest HAP	
No emissions inventory o	n record. The er	nissions inver	ntory is due J	une 30th of e	very year.		
Review Engineer: Kevin Review Engineer's Signa Kevic		Date: ∠1-7	-17		Comments / Rec /R01 e Date: 04/07/2017 iration Date: 02/28/		

I. Introduction and Purpose of Application

- A. Enviva Pellets has proposed to construct and operate a wood pellet manufacturing facility at this Richmond County location. This permit action is to administratively amend the existing permit under 15A NCAC 02Q .0316.
- B. On February 14, 2017, Enviva requested that the permit be amended to update the General Conditions to include the General Emissions Testing and Reporting Requirement, Item #17 to the permit. This condition was inadvertently left out in the previous revision. Also, the site physical address is updated to: 1039 North NC Highway 177, Hamlet, NC 28345.

	es Start Calculated Issue Due 2017 05/15/2017 Add. Amt Rcv'd: Date Rcv'd:	rec'd: Location deposited:	<u>Telephone</u> (252) 209-6032 (301) 657-5567	
		v.vo Location rec'd:	P 27910 D 20814	ription
	Completeness 03/31/2017 Date received:	Deposit Slip #:	<u>City State ZIP</u> Ahoskie, NC 27910 Bethesda, MD 20814	sss Criteria Complete Item Description
	Received 02/14/2017 Initial amount: 1	Fund type: 2333	<u>Address</u> 142 NC Route 561 East 7200 Wisconsin Avenue	Completeness Criteria Received? Complete
Richmond County	Permit/Latest Revision: 10365/ R01 State Admin. Amendment Kevin Godwin/RCO Gregory Reeves	Title V Application is COMPLETE Issued	Name Joe Harrell, Corporate EHS Manager Norb Hintz, Vice President Engineering	<u>ria</u> Application fee Appropriate number of apps submitted Zoning Addressed Authorized signature PE Seal Application contains toxic modification(s)
	General Information: Permit code: Application type: Engineer/Rev. location: Regional Contact: Facility location	Current Class/Status: Tit Current Class/Status: Tit Clock is ON Ap Status is : Iss	Type Name Technical/Permit Joe Harr Authorized Norb Hi	Acceptance CriteriaReceived?Acceptance CritN/AApplication feeN/AAppropriate nurN/AAppropriate signN/AAuthorized signN/APE SealN/AApplication con

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Comprehensive Application Report for 7700096.17A Enviva Pellets Hamlet, LLC - Hamlet (7700096) Comprehensive Application Report for 7700096.17A Enviva Pellets Hamlet, LLC - Hamlet (7700096)

04/07/2017

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Richmond County

cjhorne kmhash Staff Comments 02/14/2017 02/24/2017 02/14/2017 04/07/2017 04/07/2017 Complete Due <u>Start</u> TV - Acknowledgment/Complete Application Events Permit issued Event

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Comprehensive Application Report for 7700096.17A Enviva Pellets Hamlet, LLC - Hamlet (7700096)

04/07/2017

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Richmond County

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Permit/Revision: 10365/R01	Revision Issue Date: 04/07/2017	Accumulated process days (includes public notice periods): 52	Public notice/hearing/add info after 80 days:	Manager's discretion: Appealed? No	Current Dermit Information.	CULTER FERRING ALLOL HAUDH. Issue Refertive Ryminotion Dominion #	/2017 04/07/2017 02/28/2021						iption	Particulates Miscellaneous Industrial Processes	Sultur Dioxide Emissions Combustion Sources	e Emissions		New Value Editor
		No	No	No	No	Major	ON	NO	NO	NO			Regulation Description	Particulates Mise	Sultur Dioxide E	Control of Visible Emissions		Ne
Class after: Title V	No	No PSD/NSR:	Prohibitory Small:	General permit:	Multi. permits at facility:	HAP Major (10/25 tpy):	NESHAPS/GACT:	Existing Source RACT:	RACT Avoidance:	Source(s) After 07/10/10:		s Permit		6160. 2130	0100.	.0521	to this Application	Old Value
Outcome Information Class before: Title V	2Q.0711: No 2D.1100: No	NSPS: No NESHAPS/MACT: No	PSD/NSR Avoid: No	PSD/NSR Status After: Major	Multi-site permit: No	Quarry permit: No	2Q .0705 Last MACT/Toxics: NO	New Source RACT/LAER: NO	RACT/LAER Added Fee: NO	2Q .0702 (a)(18) - Toxics/Combustion Source(s) After 07/10/10:		Regulations Pertaining to this Permit	Reference Rule			<i>Δ</i> 2	Audit Information Pertaining to this Application	Column Name Date Changed

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Godwin, Kevin

From:	Joe Harrell <joe.harrell@envivabiomass.com></joe.harrell@envivabiomass.com>
Sent:	Tuesday, February 14, 2017 12:58 PM
To:	Godwin, Kevin
Cc: Subject:	Roland Burnett; Jason Ansley; Mike Carter; Michael Doniger; Christopher Seifert; Norb Hintz; Rickey Searcy; Mark Haser Request: General Conditions Update

Mr. Godwin,

Please update Section 3 General Conditions for Enviva Pellets Sampson (Permit #10386R02), Enviva Pellets Hamlet (Permit #10365R00), and Enviva Pellets Northampton (Permit #10203R04) with the updated general conditions per Enviva Pellets Ahoskie (Permit #10120R03) issued on May 22, 2015.

Thank you, Joe

Cc: Roland Burnett, Northampton Plant Manager Norb Hintz, Hamlet SVP Chief Engineer Rickey Searcy, Sampson Plant Manager Jason Ansley, Ahoskie Plant Manager



Joe Harrell Corporate EHS Manager

Enviva Pellets Ahoskie, LLC 142 NC Route 561 East Ahoskie, NC 27910 USA <u>www.envivabiomass.com</u> +1 (252) 209 6032 x(2202) cell (252) 370 3181 fax (252) 364 3428 joe.harrell @envivabiomass.com

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Comprehensive Application Report for 7700096.17A Enviva Pellets Hamlet, LLC - Hamlet (7700096)

Richmond County

General Information:	: Permit/Latest Revision: 10365/ R00		Applic	Application Dates	
Permit code:	State	Received	Completeness Due	Clock Start Cale	Calculated Issue Due
Application type:	Admin. Amendment	02/14/2017	7 03/31/2017	02/14/2017 0	05/15/2017
Engineer/Rev. location:	on: Kevin Godwin/RCO		Tae Information		
Regional Contact:	Gregory Reeves	Initial amount:	Date received: Amount Due:		Add. Amt Rcv'd: Date Rcv'd:
Facility location:	Fayetteville Regional Office	\$0.00	02/14/2017	0.00	
Current Class/Status:	: Title V	Fund type:	Deposit Slip #:	Location rec'd: I	Location deposited:
Clock is ON	Application is COMPLETE	2333			
Status is :	In progress				
Contact Information	ormation				
TypeNameTechnical/PermitJoe HiAuthorizedNorb I	<u>Name</u> Joe Harrell, Corporate EHS Manager Norb Hintz, Vice President Engineering	<u>Address</u> 142 NC Route 561 East 7200 Wisconsin Avenue	City State ZIP Ahoskie, NC 27910 Bethesda, MD 20814		<u>Telephone</u> (252) 209-6032 (301) 657-5567
Accompanies Puttania					
IICE CLIIE		Completeness Criteria	ss Criteria		
N/A Appl	Acceptance Criteria Description Application fee	Received?	Complete Item Description	ū	
N/A Appi N/A Zoni	Appropriate number of apps submitted Zoning Addressed				
	Authorized signature				

02/14/2017

Application contains toxic modification(s)

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Comprehensive Application Report for 7700096.17A Enviva Pellets Hamlet, LLC - Hamlet (7700096) Richmond County

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<u>Staff</u> cjhorne	
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ROY COOPER Governor

MICHAEL S. REGAN Secretary

MICHAEL A. ABRACZINSKAS Director



Air Quality ENVIRONMENTAL QUALITY

June 8, 2017

Mr. Norb Hintz Senior Vice President and Chief Engineer Enviva Pellets Hamlet, LLC 7200 Wisconsin Avenue, Suite 1000 Bethesda, Maryland 20814

Dear Mr. Hintz:

SUBJECT: Air Quality Permit No. 10365R02 Facility ID: 7700096 Enviva Pellets Hamlet, LLC Hamlet, North Carolina Richmond County PSD Status: Major Fee Class: Title V

In accordance with the administrative amendment initiated on June 6, 2017 we are forwarding herewith Air Quality Permit No. 10365R02 to Enviva Pellets Hamlet, LLC, 1125 North NC Highway 177, Hamlet, North Carolina, 28345, authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT."

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

State of North Carolina | Environmental Quality | Air Quality 217 W. Jones Street | 1641 Mail Service Center | Raleigh, North Carolina 27699-1641 919 707 8400 Mr. Norb Hintz June 8, 2017 Page 2

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of GS 143-215-108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.

Richmond County has triggered increment tracking under PSD for NOx, PM-10, and PM-2.5. However, this administrative amendment does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from June 8, 2017 until February 28, 2021, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein. Should you have any questions concerning this matter, please contact Kevin Godwin at (919) 707-8480.

Sincerely yours,

William D. Willets, P.E., Chief, Permitting Section Division of Air Quality, NCDENR

c: EPA Region 4
 Steven Vozzo, Supervisor, Fayetteville Regional Office
 Shannon Vogel, Stationary Source Compliance Branch
 Central Files
 Connie Horne (Cover letter only)

ATTACHMENT

7

Emission Source ID No.	Emission Source Description
IES-GWHS	Green wood handling and sizing operations
IES-DWHS	Dried wood handling and sizing operations
IES-TK-1	Diesel fuel storage tank (up to 2,500 gallons capacity)
IES-TK-2	Diesel fuel storage tank (up to 1,000 gallons capacity)
IES-TK-3	Diesel fuel storage tank (up to 2,500 gallons capacity)
IES-GWSP-1 and IES-GWSP-2	Green wood storage piles
IES-DEBARK-1	De-barker
IES-GWFB	Green wood fuel bin

Insignificant Activities per 15A NCAC 02Q .0503(8)

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.

2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit".

3. For additional information regarding the applicability of GACT see the DAQ page titled "The Regulatory Guide for Insignificant Activities/Permits Exempt Activities". The link to this site is as follows: http://daq.state.nc.us/permits/insig/



State of North Carolina Department of Environmental Quality Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
10365R02	1036R01	June 8, 2017	February 28, 2021

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 2D and 2Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 2Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee: Facility ID:	Enviva Pellets Hamlet, LLC 7700096
Facility Site Location: City, County, State, Zip:	1125 North NC Highway 177 Hamlet, Richmond County, North Carolina, 28345
City, County, State, Zip.	Hannet, Richmond County, North Caronna, 20545
Mailing Address:	7200 Wisconsin Avenue
City, State, Zip:	Bethesda, Maryland 20814
Application Number:	7700096.17B
Complete Application Date:	June 6, 2017
Primary SIC Code:	2499
Division of Air Quality,	Fayetteville Regional Office
Regional Office Address:	Systel Building
	225 Green Street, Suite 714
	Fayetteville, North Carolina, 28301

SECTION 1: PERMITTED EMISSION SOURCE (S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE (S) AND APPURTENANCES

SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

- 2.1- Emission Source(s) Specific Limitations and Conditions (Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
- 2.2- Multiple Emission Source(s) Specific Limitations and Conditions (Including specific requirements, testing, monitoring, recordkeeping, and reporting requirements)
- SECTION 3: GENERAL PERMIT CONDITIONS

SECTION 1- PERMITTED EMISSION SOURCE (S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE (S) AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-CHIP-1 PSD	Log chipping	N/A	N/A
ES-GHM-1 and ES- GHM-2 PSD	Green wood hammermills	CD-GHM- CYC1 and CD-GHM- CYC2	Two simple cyclones (54 inches in diameter each)
ES- BARKHOG PSD	Bark hog	N/A	N/A
ES-DRYER PSD 2D .1112 Case-by- case MACT	Wood-fired direct heat drying system (250.4 million Btu per hour heat input)	CD-DC1, CD-DC2, CD-DC3, CD-DC4, and CD- WESP	Four simple cyclones (132 inches in diameter each) in series with one wet electrostatic precipitator (29,904 square feet of collector plate area)
ES-HM-1 through ES- HM-8 PSD 2D .1112 Case-by-case MACT	Eight (8) hammermills	CD-HM- CYC-1 through CD-HM- CYC-8, and CD- HM-BF1 through CD-HM- BF8	Eight (8) simple cyclones (96 inches in diameter each) in series with eight (8) bagfilters (2,168 square feet of filter area each)
ES-HMA & ES-PFB PSD 2D .1112 Case-by-case MACT	Hammermill area and Pellets fines bin	CD-PFB- BV	One bagfilter (1,520 square feet of filter area)
ES-PMFS PSD	Pellet mill feed silo	CD-PMFS- BV	One bin vent filter (377 square feet of filter area)
ES-PSTB PSD	Pellet sampling transfer bin	CD-DC- BV3	One bin vent filter (377 square feet of filter area)

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Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-CLR-1 through ES- CLR-6 PSD 2D .1112 Case-by-case MACT	Six (6) pellet coolers	CD-CLR-1 through CD-CLR-6	Six (6) simple cyclones (54 inches in diameter) installed one each on the coolers
ES-FPH, ES-PB-1 through ES- PB-8, ES- PL-1 and ES-PL-3 PSD	Finished product handling, eight (8) pellet load-out bins, and three (3) pellet mill loadouts	CD-FPH- BF	One bagfilter (4,842 square feet of filter area)
ES-DWH PSD	Dried and sized wood handling	CD-DC- BV1 and CD-DC- BV2	Two bin vent filters (377 square feet of filter area each)
ES-GN PSD MACT Subpart ZZZZ NSPS Subpart IIII	Diesel-fired emergency generator (250 brake horsepower)	N/A	N/A
ES-FWP PSD MACT Subpart ZZZZ NSPS Subpart IIII	Diesel-fired fire emergency water pump (250 brake horsepower)	N/A	N/A

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1- Emission Source(s) and Control Devices(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, recordkeeping, and reporting requirements as specified herein:

A. Log Chipping (ID No. ES-CHIP-1), Bark Hog (ID No. ES-BARKHOG), Wood-fired direct heat drying system (ID No. ES-DRYER), Hammermills (ID Nos. ES-GHM-1 and GHM-2, ES-HM-1 through HM-8), Hammermill Area Filter (ID No. ES-HMA), Pellet Mill Feed Silo (ID No. ES-
PMFS), Pellet Sampling and Transfer Bin (ID No. ES-PSTB), Pellet Coolers (ID Nos. ES-CLR-1 through CLR-6), Pellets Fines Bin (ID No. ES-PFB), Finished Product Handling (ID No. ES-FPH), Pellet Load-out Bins (ID Nos. ES-PB-1 through PB-8), and Pellet Mill Load-out (ID No. ES-PL-1 through PL-3), Dried and Sized Wood Handling (ID No. ES-DWH)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$ \begin{array}{ll} E = 4.10 \ x \ P^{0.67} & \mbox{for } P < 30 \ tph \\ E = 55 \ x \ P^{0.11} - 40 & \mbox{for } P \ge 30 \ tph \end{array} $	15A NCAC 02D .0515
	where, E = allowable emission rate (lb/hr) P = process weight rate (tph)	
Sulfur dioxide	2.3 pounds per million Btu	15A NCAC 02D .0516
Visible emissions	20 percent opacity when averaged over a 6-minute period	15A NCAC 02D .0521
HAPS	See Section 2.1 A.4.	15A NCAC 02D .1112
		[§ 112(g) Case-by-case MACT]
PM/PM- 10/PM-2.5,	BACT Limits, See Section 2.2 A.2.	15A NCAC 02D .0530
NOx VOC		
co		
GHG		

The following table provides a summary of limits and standards for the emission source(s) described above:

1. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from these sources shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 02D .0515(a)]

 $E = 4.10 \text{ x P}^{0.67}$ for P < 30 tph $E = 55 \text{ x P}^{0.11} - 40$ for P \ge 30 tph

Where E = allowable emission rate in pounds per hour P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0308(a)]

b. Under the provisions of NCGS 143-215.108, the Permittee shall test the wet electrostatic precipitator (ID No. CD-WESP) for total suspended particulate (TSP) in accordance with a testing protocol approved by the DAQ. Testing shall be completed and the results submitted within 180 days of commencement of operation unless an alternate date is approved by the DAQ.

Monitoring/Recordkeeping [15A NCAC 02Q .0308(a)]

- c. The Permittee shall maintain production records such that the process rates "P" in tons per hour, as specified by the formulas contained above (or the formulas contained in 15A NCAC 2D .0515) can be derived, and shall make these records available to a DAQ authorized representative upon request.
- d. Particulate matter emissions from the wood-fired dryer (ID No. ES-DRYER) shall be controlled by four (4) cyclones (ID Nos. CD-DC-1 through DC-4) in series with one wet electrostatic precipitator (ID No. CD-WESP). Particulate matter emissions from the hammermills (ID Nos. ES-GHM-1 and 2, ES-HM-1 through 8) shall be controlled by cyclones and bagfilters (ID Nos. CD-GMH-CYC1 and CD-GHM-CYC2, CD-HM-CYC-1 through 8, and CD-HM-BF-1 through 8). Particulate matter emissions from the hammermill area (ID No. ES-HMA) and the pellets fines bin (ID No. ES-PFB) shall be controlled by a bin vent filter (ID No. CD-PFB-BV). Particulate matter emissions from the pellet mill feed silo (ID No. ES-PMFS) shall be controlled by a bin vent filter (ID No. CD-PFB-BV). Particulate matter emissions from the pellet sampling and transfer bin (ID No. ES-PSTB) shall be controlled by a bin vent filter (ID No. CD-DC-BV3). Particulate matter emissions from the pellet coolers (ID Nos. ES-CLR-1 through 6) shall be controlled by cyclones (ID Nos. CD-CLR-1 through 6). Particulate matter emissions from finished product handling (ID No. ES-FPH), pellet mill load-out bins (ID Nos. ES-PB-1 through 8), and pellet mill load-out (ID No. ES-PL-1 through 3) shall be controlled by a bagfilter (ID No. CD-FPH-BF).Particulate matter emissions from the dried and sized wood handling (ID No. ES-DWH) shall be controlled by two bin vent filters (ID Nos. CD-DC-BV1 and BV2).

For bagfilters, bin vent filters, and cyclones:

To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:

- i. a monthly visual inspection of the system ductwork and material collection unit for leaks.
- ii. an annual (for each 12-month period following the initial inspection) internal inspection of the bagfilters' structural integrity.

For WESP:

To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:

The Permittee shall establish the minimum primary voltage and minimum current within the first 30 days following the commencement of operation of the dryer. To assure compliance and effective operation of the wet electrostatic precipitator, the Permittee shall monitor and record the primary voltage and minimum current through the precipitator for each day of the calendar year period that the dryer system is operated. The Permittee shall be allowed three (3) days of absent observations per semi-annual period.

- e. The results of inspection and maintenance shall be maintained in a log (written or electronic format) onsite and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.

Reporting

f. The Permittee shall submit the results of any maintenance performed on the WESP, cyclones, bagfilters, and bin vent filters within 30 days of a written request by the DAQ.

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from these sources shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

Testing [15A NCAC 02Q .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17. found in Section 3.

Monitoring/Record keeping/Reporting [15A NCAC 02Q .0308(a)]

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from firing biomass in the dryer system.

3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from these sources shall not be more than 20 percent opacity when averaged over a sixminute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 02D .0521 (d)]

Testing [15A NCAC 02Q .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17. found in Section 3.

Monitoring [15A NCAC 02Q .0308(a)]

- c. To assure compliance, once a month the Permittee shall observe the emission points of this source for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. The Permittee shall establish "normal" for the source in the first 30 days following the effective date of the permit. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.3. a. above.

Recordkeeping [15A NCAC 02Q .0308(a)]

- d. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

Reporting [15A NCAC 02Q .0308(a)]

e. No reporting is required.

4. 15A NCAC 02D .1112 National Emissions Standards for Hazardous Air Pollutants, 112(g) Case-by-Case Maximum Achievable Control Technology – For the wood pellet mill dryer (ID No. ES-DRYER), the Permittee shall use a low HAP emitting dryer design not requiring add-on control.

Testing [15A NCAC 02D .0530]

a. Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall establish emission factors by conducting an initial performance test on the dryer system for formaldehyde, methanol, acetaldehyde, and propionaldehyde utilizing EPA reference methods, as in effect on the date of permit issuance, contained in 40 CFR 60, Appendix A, or 40 CFR 63 AND in accordance with a testing protocol (using testing protocol submittal form) approved by the Division of Air Quality. The sum of the above HAPs will be multiplied by a correction factor of 1.04 to determine total HAPs for the dryer system.

Initial testing shall be completed and the results submitted within 180 days of commencement of operation unless an alternate date is approved by the DAQ.

b. <u>Monitoring/Recordkeeping/Reporting</u> [15A NCAC 02Q .0308(a)] No monitoring, recordkeeping, or reporting is required.

B. Emergency Generator (ID No. ES-GN) and Fire Water Pump (ID No. ES-FWP)

The following table provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air	National Emission Standards for Hazardous Air	15A NCAC 02D .1111
pollutants (HAP)	Pollutants for Stationary Reciprocating Internal	(40 CFR 63, Subpart
	Combustion Engines (RICE)	ZZZZ)
	No additional requirements per 63.6590(c)	
NMHC and NOx,	0.20 g/kW for PM; 3.5 g/kW for CO; and 4 g/kW	15A NCAC 02D .0524
CO, PM	for NOx + NMHC	(40 CFR 60, Subpart IIII)

1. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from these sources shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 02D .0516]

Testing [15A NCAC 02Q .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17. found in Section 3.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0308(a)]

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of diesel fuel in these sources.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from these sources shall not be more than 20 percent opacity when averaged over a sixminute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 02D .0521(d)]

Testing [15A NCAC 02Q .0308(a)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition 17. found in Section 3.

Monitoring [15A NCAC 02Q .0308(a)]

c. To assure compliance, once a month the Permittee shall observe the emission points of these sources for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement. The Permittee shall establish 'normal' for the sources in the first 30 days following commencement of operation. If visible emissions from these sources are observed to be above normal, the Permittee shall either:

i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or

ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 F.2. a. above.

Recordkeeping [15A NCAC 02Q .0308(a)]

- d. The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

Reporting [15A NCAC 02Q .0308(a)]

e. No reporting is required.

3. 15A NCAC 02D .0524 NEW SOURCE PERFORMANCE STANDARDS [40 CFR 60 Subpart IIII]

a. The provisions of this subpart are applicable to manufacturer, owners, and operators of stationary compression ignition (CI), reciprocating internal combustion engines (RICE). The Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, recordkeeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards (NSPS)" as promulgated in 40 CFR Part 60 Subpart IIII, including Subpart A "General Provisions."

Emission Standards

Emergency and Fire Pump Engines

b. Pursuant to 40 CFR §60.4205(b), owners and operators must comply with the following emission standards:

Pollutant	Emission Limit (g/kW-hr)	Emission Limit (g/bhp-hr)
CO	3.5	2.6
PM	0.2	0.15
NMHC + NOx	4.0	3.0

Monitoring [15A NCAC 02Q .0308(a)]

c. The Permittee shall operate the stationary ICE of emergency generators according to the requirements in paragraphs (f)(1) through (3) of §60.4211. In order for the engine to be considered an emergency stationary ICE under this Subpart, any operation other than emergency operation, maintenance and

testing, emergency demand response, and operation in nonemergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of 60.4211, is prohibited. If the Permittee does not operate the engine according to the requirements in paragraphs (f)(1) through (3) of 60.4211, the engine will not be considered an emergency engine under this Subpart and shall meet all requirements for non-emergency engines.

- i. There is no time limit on the use of emergency stationary ICE in emergency situations.
- ii. The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of §60.4211 for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of §60.4211 counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
 - (A) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
 - (B) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
 - (C) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- iii. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of §60.4211, the 50 hours per calendar year for nonemergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
 - (A) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
 - (AA) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
 - (BB) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - (CC) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 - (DD) The power is provided only to the facility itself or to support the local transmission and distribution system.
 - (EE) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[§60.4211(f]

d. Pursuant to 40 CFR §60.4206, owners and operators must operate and maintain the stationary RICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

Fuel Requirements for Owners and Operators

- e. Pursuant to 40 CFR §60.4207, owners and operators must use fuel with a maximum sulfur content of 15 ppmw and a cetane index of at least 40.
- f. Pursuant to 40 CFR §60.4209(a), the owner or operator must install a non-resettable hour meter prior to startup of the engines.

Recordkeeping [15A NCAC 02Q .0308(a)]

g. Starting with the emergency engine model year 2011, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the Permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee shall record the time of operation of the engine and the reason the engine was in operation during that time. [§60.4214(b)]

4. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (40 CFR 63 Subpart ZZZZ)

- a. Pursuant to §63.6580, Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.
- b. Pursuant to §63.6590(c), a new emergency stationary RICE with a site rating of less than or equal to 500 horsepower located at a major source must meet the requirements of 40 CFR Part 60, Subpart IIII, for compression ignition engines. No further requirements apply for such engines under this part.

2.2- Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide Emission Sources

The following table provides a summary of limits and standards for the emission source(s) describe above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Fugitive dust	Minimize fugitive dust beyond property boundary	15A NCAC 02D .0540
PM/PM- 10/PM-2.5, NOx, CO, VOC, and GHG	BACT Limits	15A NCAC 02D .0530

1. Fugitive Dust Control Requirement [15A NCAC 02D .0540] - STATE ENFORCEABLE ONLY

As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

2. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements in accordance with 15A NCAC 02D .0530, "Prevention of Significant Deterioration of Air Quality" as promulgated in 40 CFR 51.166. [15A NCAC 02D .0530]
- b. The following emission limits shall not be exceeded except during periods of start-up, shut-down, or malfunction. [15A NCAC 02D .0530]:

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NOx
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Unit	Pollutant	BACT Limit*	Units	Averaging	Technology
				Period	
Chipper	VOC	N/A	N/A	N/A	Fugitive
Green Wood	PM/PM10/2.5	N/A	N/A	N/A	Inherent Moisture content
Handling					
Storage Piles	PM/PM10/2.5	N/A	N/A	N/A	Inherent Moisture content
	VOC	N/A	N/A	N/A	Fugitive
Road Dust	PM/PM10/2.5	N/A	N/A	N/A	Paving & Water Spray
Emergency	CO	2.6	g/bhp-hr		Design and Good
engines	NMHC+NOx	3.0	g/bhp-hr		operating practices
	PM	0.15 (filterable only)	g/bhp-hr		NSPS Certification
Storage tanks	VOC	Good Operation	N/A	N/A	Good operating practices
_		Practices			

* BACT emission limits shall apply at all times except the following: Emissions resulting from start-up, shutdown or malfunction above those given in the table above are permitted provided that optimal operational practices are adhered to and periods of excess emissions are minimized.

** The VOC limit is expressed as alpha pinene basis per the procedures in EPA OTM 26.

Testing [15A NCAC 02D .0530]

c. Under the provisions of North Carolina General Statute 143-215.108, the Permittee shall demonstrate compliance with the BACT emission limits by conducting performance test on the dryer system, the pellet coolers, and the greenwood hammermills as specified below utilizing EPA reference methods, as in effect on the date of permit issuance, contained in 40 CFR 60, Appendix A, 40 CFR 63, and/or OTM 26 AND in accordance with a testing protocol (using testing protocol submittal form) approved by the Division of Air Quality, as follows:

Unit	Pollutant	Testing
Dryer system	NOx	Annually
	PM/PM10/PM2.5	Annually
	VOC	Initial Only
	CO	Initial Only
One Pellet cooler	VOC	Initial Only
One Green wood hammermill	VOC	Initial Only

Initial testing shall be completed and the results submitted within 180 days of commencement of operation unless an alternate date is approved by the DAQ.

If the results of two consecutive NOx and/or PM/PM10/PM2.5 compliance tests are less than 80% of the above BACT limit, future testing shall be required once per five years (within 60 months of the previous test date). If the results of either test for either pollutant exceed 80% of the standard, then annual testing shall resume for the respective pollutant until two consecutive tests per pollutant are less than 80% of the above listed BACT limit.

Monitoring/Recordkeeping/Reporting [15ANCAC 02Q .0308(a)]

d. The Permittee shall not process more than 537,625 oven-dried tons (ODT) of pellets per year. The Permittee shall not process more than 75% softwood on a 12-month rolling average basis. The process rate and hardwood/softwood mix shall be recorded in a monthly log kept on site. Calculations and the total amount of NOx, filterable PM, CO, and VOC emissions shall be recorded monthly in a log (written or electronic format) kept on site and made available to DAQ personnel upon request.

- e. For the dryer system, GHG (CO₂e) emissions shall be calculated on a monthly basis and compliance demonstrated using the applicable Part 98 emission factors. Compliance shall be documented on a 12 month rolling basis.
- f. No reporting is required.
- g. <u>REPORTING REQUIREMENT</u> Within 30 days of beginning commercial operation, the Permittee shall notify, in writing, the Regional Office of the date the facility began commercial operation. Pursuant to 15A NCAC 2Q .0500, the Permittee shall have one year from the date of beginning commercial operation to submit a complete Title V application to the Regional Supervisor.

SECTION 3 - GENERAL CONDITIONS

1. In accordance with G.S. 143-215.108(c)(1), <u>TWO COPIES OF ALL DOCUMENTS, REPORTS, TEST</u> <u>DATA, MONITORING DATA, NOTIFICATIONS, REQUESTS FOR RENEWAL, AND ANY OTHER</u> <u>INFORMATION REQUIRED BY THIS PERMIT</u> shall be submitted to the:

Steven Vozzo Regional Air Quality Supervisor North Carolina Division of Air Quality Fayetteville Regional Office Systel Building 225 Green Street, Suite 714 Fayetteville, NC 28301-5043 (910) 433-3300

For identification purposes, each submittal should include the facility name as listed on the permit, the facility identification number, and the permit number.

- <u>RECORDS RETENTION REQUIREMENT</u> In accordance with 15A NCAC 2D .0605, any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. These records must be kept on site for a minimum of 2 years, unless another time period is otherwise specified.
- 3. <u>ANNUAL FEE PAYMENT</u> Pursuant to 15A NCAC 2Q .0203(a), the Permittee shall pay the annual permit fee within 30 days of being billed by the DAQ. Failure to pay the fee in a timely manner will cause the DAQ to initiate action to revoke the permit.
- 4. <u>EQUIPMENT RELOCATION</u> In accordance with 15A NCAC 2Q .0301, a new air permit shall be obtained by the Permittee prior to establishing, building, erecting, using, or operating the emission sources or air cleaning equipment at a site or location not specified in this permit.
- 5. <u>REPORTING REQUIREMENT</u> In accordance with 15A NCAC 2Q .0309, any of the following that would result in previously unpermitted, new, or increased emissions must be reported to the Regional Supervisor, DAQ:
 - a. changes in the information submitted in the application regarding facility emissions;
 - b. changes that modify equipment or processes of existing permitted facilities; or

c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

- 6. In accordance with 15A NCAC 2Q .0309, this permit is subject to revocation or modification by the DAQ upon a determination that information contained in the application or presented in the support thereof is incorrect, conditions under which this permit was granted have changed, or violations of conditions contained in this permit have occurred. In accordance with G.S. 143-215.108(c)(1), the facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air cleaning device(s) and appurtenances.
- 7. In accordance with G.S. 143-215.108(c)(1), this permit is nontransferable by the Permittee. Future owners and operators must obtain a new air permit from the DAQ.
- 8. In accordance with G.S. 143-215.108(c)(1), this issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of State law which have occurred prior to the effective date of this permit.
- 9. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with all applicable requirements of any Federal, State, or Local water quality or land quality control authority.
- 10. In accordance with 15A NCAC 2D .0605, reports on the operation and maintenance of the facility shall be submitted by the Permittee to the Regional Supervisor, DAQ at such intervals and in such form and detail as may be required by the DAQ. Information required in such reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and preventive maintenance schedules.
- 11. A violation of any term or condition of this permit shall subject the Permittee to enforcement pursuant to G.S. 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.
- 12. Pursuant to North Carolina General Statute 143-215.3(a)(2), no person shall refuse entry or access to any authorized representative of the DAQ who requests entry or access for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
- 13. In accordance with G.S. 143-215.108(c)(1), this permit does not relieve the Permittee of the responsibility of complying with any applicable Federal, State, or Local requirements governing the handling, disposal, or incineration of hazardous, solid, or medical wastes, including the Resource Conservation and Recovery Act (RCRA) administered by the Division of Waste Management.
- 14. <u>PERMIT RETENTION REQUIREMENT</u> In accordance with 15A NCAC 2Q .0110, the Permittee shall retain a current copy of the air permit at the site. The Permittee must make available to personnel of the DAQ, upon request, the current copy of the air permit for the site.
- 15. <u>CLEAN AIR ACT SECTION 112(r) REQUIREMENTS</u> Pursuant to 15A NCAC 2D .2100 "Risk Management Program," if the Permittee is required to develop and register a risk management plan pursuant

to Section 112(r) of the Federal Clean Air Act, then the Permittee is required to register this plan with the USEPA in accordance with 40 CFR Part 68.

- 16. <u>PREVENTION OF ACCIDENTAL RELEASES GENERAL DUTY</u> Pursuant to Title I Part A Section 112(r)(1) of the Clean Air Act "Hazardous Air Pollutants Prevention of Accidental Releases Purpose and General Duty," although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release. This condition is federally-enforceable only.
- 17. <u>GENERAL EMISSIONS TESTING AND REPORTING REQUIREMENTS</u> If emissions testing is required by this permit, or the DAQ, or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow all DAQ procedures including protocol approval, regional notification, report submittal, and test results approval.

Permit issued this the 8th day of June, 2017

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

William D. Willets, P.E., Chief, Permitting Section Division of Air Quality, NCDENR By Authority of the Environmental Management Commission

Air Permit No. 10365R02

NORTH CAROLINA DI AIR QUALITY	vision of Application	n Review			Region: Fayettevil County: Richmond NC Facility ID: 77 Inspector's Name:	l 100096
Issue Date: June 8, 2017					Date of Last Inspe	
	Facility	Data			Permit Applica	bility (this application only)
Applicant (Facility's Nar Facility Address: Enviva Pellets Hamlet, LL 1125 North NC Highway Hamlet, NC 28345 SIC: 2499 / Wood Produc NAICS: 321999 / All Ot Facility Classification: B Fee Classification: Befor	C 177 ts, Nec her Miscellaneou: efore: Title V A	s Wood Produ fter: Title V		ing	SIP: 15A NCAC 0 NSPS: N/A NESHAP: N/A PSD: N/A PSD Avoidance: N NC Toxics: N/A 112(r): N/A Other: N/A	
Fee Classification. Deter	Contact				Ар	plication Data
Facility Contact Joe Harrell Corporate EHS Manager (252) 209-6032 142 NC Route 561 East Ahoskie, NC 27910	Authorized Norb Hintz Vice President Engineering (301) 657-556' 7200 Wisconsi Bethesda, MD	7 n Avenue 20814	Technical Joe Harrell Corporate EHS (252) 209-603 142 NC Route Ahoskie, NC 2	S Manager 2 561 East	Application Sched Exist Existing Permit Nu Existing Permit Iss	/06/2017 Admin, Amendment ule: State ting Permit Data
Total Actual emissions			1	1		T (TAD
CY SO2	NOX	VOC	CO	PM10	Total HAP	Largest HAP
No emissions inventory of	n record. The er	nissions inven	tory is due Ju	ine 30th of e	very year.	
Review Engineer: Kevin Review Engineer's Sign Kevth		Date: 6-8.	-17		Comments / Rec 5/R02 ae Date: 06/08/2017 biration Date: 02/28/	

I. Introduction and Purpose of Application

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A. Enviva Pellets has proposed to construct and operate a wood pellet manufacturing facility at this Richmond County location. This permit action is to administratively amend the existing permit under 15A NCAC 02Q .0316 to correct the site physical address to:

1125 North NC Highway 177 Hamlet, Richmond County, NC 28345

tt Revision: 10365/ R02	Received Completeness Due Clock Start Calculated Issue Due	nt 06/06/2017 07/21/2017 06/06/2017 09/04/2017	O Fee Information	Initial amount: Date received: Amount Due: Add. Amt Rcv'd: Date Rcv'd:	nal Office \$0.00 06/06/2017 0.00	Fund type: Deposit Slip #: Location rec'd: Location deposited:	APLETE 2333			AddressCity State ZIPTelephoneManager142 NC Route 561 EastAhoskie, NC 27910(252) 209-6032Engineering7200 Wisconsin AvenueBethesda, MD 20814(301) 657-5567	Come atomace Oritania		Received? Complete Item Description	ubmitted				odification(s)
Permit/Latest Revision: 10365/ R02	State	Admin. Amendment	Kevin Godwin/RCO	Gregory Reeves	Fayetteville Regional Office	Title V	Application is COMPLETE	Issued	ation	<u>Name</u> Joe Harrell, Corporate EHS Manager Norb Hintz, Vice President Engineering		Acceptance Criteria Description	tion fee	Appropriate number of apps submitted	Zoning Addressed	Authorized signature		Application contains toxic modification(s)
General Information:	Permit code:	Application type:	Engineer/Rev. location:	Regional Contact:	Facility location:	Current Class/Status:	Clock is ON	Status is :	Contact Information	TypeNameTechnical/PermitJoe HarAuthorizedNorb Hi	Acceptance Criteria	Received? Acceptar	N/A Application fee				N/A PE Seal	N/A Applicat

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06/09/2017

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Comprehensive Application Report for 7700096.17B Enviva Pellets Hamlet, LLC - Hamlet (7700096)

Richmond County

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Richmond County

Application Events						
<u>Event</u> TV - Acknowledgment/Complete Permit issued	<u>Start</u> 06/06/2017 (06/08/2017	<u>Due</u> 06/16/201'	Due Complete 7 06/16/2017 06/08/2017 9 06/08/2017 06/08/2017	Comments	<u>Staff</u> cjhorne kmhash	

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Permit/Revision: 10365/R02	Revision Issue Date: 06/08/2017	Accumulated process days (includes public notice periods): 2	Public notice/hearing/add info after 80 days:	Manager's discretion: Appealed? No	Current Domnit Information.		/2017 06/08/2017 02/28/2021					Regulation Description Particulates Miscellaneous Industrial Processes	Sulfur Dioxide Emissions Combustion Sources Control of Visible Emissions		New Value 5120 (Gregory Reeves) Connie Horne
		No	No	No	No	Major	NO	NO	NO	NO		<u>Regulati</u> Particula	Sulfur D Control (
Class after: Title V	No	No PSD/NSR:	Prohibitory Small:	General permit:	Multi. permits at facility:	HAP Major (10/25 tpy):	NESHAPS/GACT:	Existing Source RACT:	RACT Avoidance:	Source(s) After 07/10/10:	is Permit	.0515	.0516 .0521	to this Application	Old Value
Outcome Information Class before: Title V	2Q.0711: No 2D.1100: No	NSPS: No NESHAPS/MACT: No	PSD/NSR Avoid: No	PSD/NSR Status After: Major	Multi-site permit: No	Quarry permit: No	2Q .0705 Last MACT/Toxics: NO	New Source RACT/LAER: NO	RACT/LAER Added Fee: NO	2Q.0702 (a)(18) - Toxics/Combustion Source(s) After 07/10/10:	Regulations Pertaining to this Permit	Reference Rule 2D	2D 2D	Audit Information Pertaining to this Application	Column Name Date Changed reg 06/06/2017

06/09/2017

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Richmond County

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Godwin, Kevin

J.

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From: Sent: To: Subject: Joe Harrell <joe.harrell@envivabiomass.com> Tuesday, May 16, 2017 9:13 PM Godwin, Kevin FW: Enviva Hamlet address

Hi Kevin,

We received air permit 1036R01 with I thought the new address, but in fact, we need to stay with the old address that is in the 1036R00, which is 1125 North NC Highway 177, Hamlet, Richmond County, NC 28341. **? ROO**

Can you change it back from the email or do I need to send in a letter?

28345 ROI

Thank you, Joe



Joe Harrell Corporate EHS Manager

Enviva Pellets Ahoskie, LLC 142 NC Route 561 East Ahoskie, NC 27910 USA <u>www.envivabiomass.com</u> +1 (252) 209 6032 x(2202) cell (252) 370 3181 fax (252) 364 3428 joe.harrell @envivabiomass.com

From: Michael Doniger Sent: Wednesday, May 10, 2017 9:20 AM To: Joe Harrell <joe.harrell@envivabiomass.com> Cc: McConnell, Alan <AMcConnell@kilpatricktownsend.com> Subject: FW: Enviva Hamlet address

Joe – where did the address listed in the R01 permit for Hamlet come from? See below address that we'd been using previously.

Michael J. Doniger Director, Corporate Development 7200 Wisconsin Ave, Site 1000 Bethesda, MD 20814 USA <u>www.envivabiomass.com</u> Cell: +1 804 929 8418 From: Corey Glenn Sent: Friday, April 22, 2016 10:51 AM To: Michael Doniger <<u>Michael.Doniger@envivabiomass.com</u>> Subject: Enviva Hamlet address

Please read below – Call me when you get a second

Corey

From: Donna B. Wright Sent: Thursday, April 21, 2016 1:37 PM To: Rick Sago Subject: Enviva

Mr. Sago,

I googled 1125 N NC 177 Hwy. Google's point is showing near the intersection of Willard St. Google uses theoretical address and not actual address data available from local jurisdictions. The company's address point is correct in our GIS system, which, as you know, we can control. Unfortunately, we can't do anything about Google's bad data.

Donna B. Wright, ENP Director Richmond County Emergency Services

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