

**ENVIVA PELLETS
P/N 10121
HERTFORD COUNTY**

2013

*Central
Files*



North Carolina Department of Environment and Natural Resources

Division of Air Quality

Pat McCrory
Governor

Sheila C. Holman
Director

John E. Skvarla, III
Secretary

July 12, 2013

Mr. Pete Najera
Vice President - Operations
Enviva Pellets, LLC
7200 Wisconsin Avenue, Suite 1000
Bethesda, Maryland 20814

Subject: Air Permit Applicability Determination #2264
Facility ID: 4600107
Enviva Pellets, Ahoskie, LP
Ahoskie, Hertford County, North Carolina

Dear Mr. Najera,

Your letter requesting an air permit applicability determination was received by this office on June 27, 2013. As stated in your letter, Enviva requests to install a hammermill vent following the existing dried wood handling system (ID No. IES-DWHS). The dried wood handling system will vent directly to the existing high pressure blower conveyor to supplement inlet ambient air. The dried wood day silo (ID No. ES-DWDS) will not change as a result of this closed loop vent and no increase in emissions is expected.

According to your letter, the dried wood handling system includes a hammermill, enclosed conveyor system, and cyclone. The system is currently totally enclosed with the vent from the cyclone feeding back into the hammermill. The new vent will be located after the cyclone and will draw a portion of the system air. The vent will go through an enclosed filter to the dry material transfer blower. A check valve will be installed to close the vent when the silo is not being filled.

DAQ has determined that an air permit revision is not necessary for installation of the hammermill vent as you describe.

Permitting Section
1641 Mail Service Center, Raleigh, North Carolina 27699-1641
217 West Jones Street, Raleigh, North Carolina 27603
Phone: 919-707-8405 / Fax: 919-715-0717

Internet: www.ncair.org

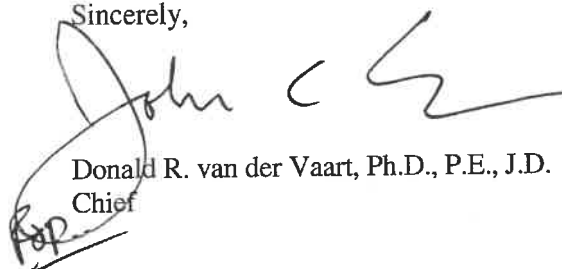
An Equal Opportunity \ Affirmative Action Employer - Made in part by Recycled Paper

REC'D AIR RECORDS MGMT
JUL 14 13

Mr. Najera
July 12, 2013
Page 2

Should you have any questions regarding this determination, please contact Kevin Godwin at 919-707-8480.

Sincerely,



Donald R. van der Vaart, Ph.D., P.E., J.D.
Chief

c: Robert Fisher, Supervisor, Washington Regional Office
✓ Central Files

Received

JUL 27 2013

Air Permits Section



7200 Wisconsin Ave., Suite 1000
Bethesda, MD 20814 USA

+1 (301) 657 5560
fax (301) 657 5567

www.envivabiomass.com

June 24, 2013

Kevin Godwin, Engineer
Permits
NC DENR, Division of Air Quality
1641 MSC, Raleigh, NC 27699-1641

RE: Permit Determination of closed loop vent into IES-DWHS
Current Permit No. 10121R01

Dear Kevin:

Enviva Pellets Ahoskie, LLC (Ahoskie), requests a permit determination on the proposal to install a hammermill vent after the insignificant dried wood handling system, IES-DWHS that will vent directly to the existing high pressure blower conveyor to supplement inlet ambient air as shown on Appendix A. The emission source, the Dried Wood Day Silo, will not change as a result of this closed loop vent and no increase in emissions are expected.

Currently, the bin vent filter emissions are based on a design flow rate through a filter of 2,186 cubic feet per minute. As shown in the appendix, a dry material transfer blower will use the dry wood hammermill vent air along with ambient air to make up the air that is required for blowing wood fiber into the dried wood day silo (ES-DWDS).

The Dried Wood Handling System (IES-DWHS) is included on the insignificant source list attached to Enviva's permit. The system contains a hammermill, enclosed conveyor system and a cyclone. The system is currently totally enclosed with the vent from the cyclone feeding back into the hammermill. The new vent will be located after the cyclone and will draw a portion of the system air. The vent will go through an enclosed filter to the dry material transfer blower. A check valve will be installed to close the vent when the silo is not being filled (IES-DWHS would then operate as it does now). The following regulations were triggered by the original addition of the Dried Wood Day Silo (ES-DWDS):

- 15A NCAC 2D .0515, Particulates from Miscellaneous Industrial Processes and
- 15A NCAC 2D .0521, Control of Visible Emissions.

No changes in compliance with the regulations will result from adding the new vent to the dry material transfer blower and ES-DWDS will remain in compliance with the applicable particulate matter and visible emissions standards.

JUL 14 13
NEED AIR RECORDS MGMT

Please feel free to contact Mr. Joe Harrell of Enviva at (252) 370-3181 if you have any questions.

Certification by Responsible Official

"Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this document are true, accurate and complete."

Sincerely,

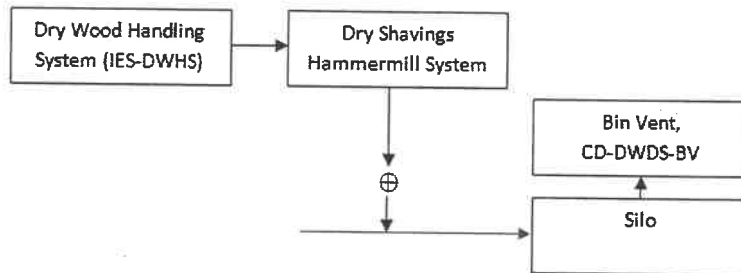
A handwritten signature in black ink, appearing to read "Pete Najera". The signature is fluid and cursive, with a large initial "P" and a long, sweeping underline.

Pete Najera

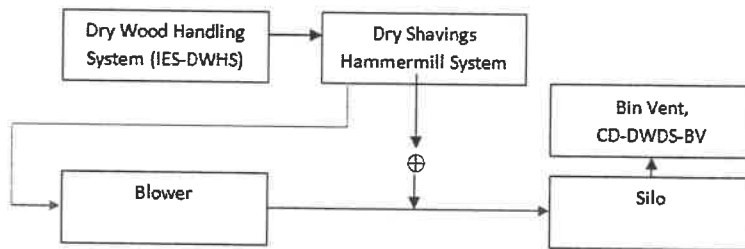
Vice President of Operations

APPENDIX A: COMPARISON OF PROCESS LAYOUT




Current Layout:



Proposed Layout:



Key:

-  = Mechanical Conveyor
-  = Existing Pneumatic Line
-  = New Pneumatic Line

READ AIR RECORDS MGMT
JUL 14 13

DRY SHAVINGS
 HAMMERMILL EQUIP.
 LOW PRESSURE
 AIR SYSTEM
 HIGH PRESSURE
 AIR SYSTEM
 PROCESS FLOW

14' DUCT - AREA 1.07 SQ. FT

NORMAL FLOW LBS/HR	MAXIMUM FLOW LBS/HR	DESIGN FLOW LBS/HR
8,000	20,000	20,000
1,600 CU FT/HR	4,000 CU FT/HR	4,000 CU FT/HR

INFEED ROTARY FEEDER

NORMAL FLOW LBS/HR	MAXIMUM FLOW LBS/HR	DESIGN FLOW LBS/HR
8,000	16,000	16,000
1,600 CU FT/HR	3,200 CU FT/HR	3,200 CU FT/HR

INFEED SCREW CONVEYOR

CYCLONE AIRLOCK

NORMAL FLOW LBS/HR	MAXIMUM FLOW LBS/HR	DESIGN FLOW LBS/HR
8,000	16,000	16,000
667 CU FT/HR	1,334 CU FT/HR	1,334 CU FT/HR

DISCHARGE DRAG CONVEYOR

NORMAL FLOW LBS/HR	MAXIMUM FLOW LBS/HR	DESIGN FLOW LBS/HR
8,000	16,000	16,000
667 CU FT/HR	1,334 CU FT/HR	1,334 CU FT/HR

TRUCK DUMP

ADDITIONAL STORAGE

EXISTING STORAGE

DRY WOOD METERING HOPPER

VIBRATING CONVEYOR

OVERS

DRY MATERIAL TRANSFER H.P. BLOWER

PS

FILTER

OLD HAMMERMILL

NEW HAMMERMILL

7.5HP HAMMERMILL FAN

AIR VALVE & CYL

120 VAC, 1 COIL

AIR COIL

2 HP SERVAC

7.5HP

TOBAC TABERSON

PS

FIRE DUMP

TEE INJECTOR (RELOCATED)

MD

DRY MATERIAL TRANSFER H.P. BLOWER

PS

FIRE DUMP

TEE INJECTOR

TO SCREEN

HIGH PRESSURE CONVEYING SYSTEM

NORMAL FLOW LBS/HR	MAXIMUM FLOW LBS/HR	DESIGN FLOW LBS/HR
8,000	16,000	16,000
667 CU FT/HR	1,334 CU FT/HR	1,334 CU FT/HR

JACOBSON HAMMERMILL

NORMAL FLOW LBS/HR	MAXIMUM FLOW LBS/HR	DESIGN FLOW LBS/HR
1,600	3,200	3,200
667 CU FT/HR	1,334 CU FT/HR	1,334 CU FT/HR

INFEED

OUTFEED

HIGH PRESSURE FEEDER

NORMAL FLOW LBS/HR	MAXIMUM FLOW LBS/HR	DESIGN FLOW LBS/HR
8,000	16,000	16,000
667 CU FT/HR	1,334 CU FT/HR	1,334 CU FT/HR

DRY MATERIAL TRANSFER H.P. BLOWER

PS

FIRE DUMP

TEE INJECTOR

TO SCREEN

DRY MATERIAL STORAGE SILO

TARGET BOX

BIN VENT

IMP: Hammermill
 HMB: Hammermill
 DATE: 5/2/13 BY: JMB
 PRELIMINARY
 FOR APPROVAL
 APPROVED AS NOTED
 APPROVED FOR CONST.
 FOR BID

1. DRY SHAVINGS BULK DENSITY IS 5 LBS/QU FT
2. DRY SHAVINGS BULK DENSITY IS 12 LBS/QU FT
3. XXX
4. XXX

CONFIDENTIAL
 THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN ARE
 CONSIDERED TO BE CONFIDENTIAL AND PROPRIETARY AND SHOULD
 BE HELD IN THE STRICTEST CONFIDENCE BY ALL PARTIES THAT
 ARE GIVEN ACCESS TO THIS INFORMATION.

ENVIV3
 CUSTOMER APPROVAL

ENVIRO
 AHSOSKE, NC

J.M.P. PERKINSON ENGINEERING
 KINSALE, VA 22488
 PHONE: 804-472-8222
 FAX: 804-472-3443

DRY SHAVINGS HAMMERMILL
 PROCESS FLOW DIAGRAM
 SCALE: 1/2" = 1'
 DRAWING NO. 13-100-H
 DATE: 5/2/13
 BY: JMB

App. Det. # 2264

CENTRAL OFFICE PERMIT TRACKING SLIP

Facility Name: Enviva Pellets Ahoskie, LLC

Facility/Application ID: 4600107

County/Regional Office: Hertford/WARO

Engineer: Kevin Godwin

Send Regional Office Copy of Application: Yes No

PART I - ACCEPTANCE CHECKLIST

Acknowledgement Letter: Already Sent Please Send

Initial Event(s): TV-Ack./Complete State Ack. Letter due
 TV-Ack./Incomplete add info State App. not accepted - add info request

Fee Information:		Acceptance Check List:		
Amount Due:		Yes	No	N/A
<input type="checkbox"/> PSD or NSR/NAA	\$13,837			
<input type="checkbox"/> PSD and NSR/NAA	\$26,913			
<input type="checkbox"/> TV Greenfield	\$ 9,140			
<input type="checkbox"/> TV	\$ 889			
<input type="checkbox"/> Ownership Change	\$60, \$50, \$25			
<input type="checkbox"/> Renewal/Name Change - NA				

Initial Amount Received: _____
Additional Amount Due: _____

Appropriate Number of Apps Submitted: # Received _____ # Needed _____
Application Fee Submitted
Zoning Addressed
Authorized Signature
PE Seal
Request for Confidentiality
Application Contains Toxics Modification(s)

PART II - IBEAM UPDATES

Application Type:	Permit Application Schedule:	
<input type="checkbox"/> Additional Permit	<input type="checkbox"/> Appeal	<input type="checkbox"/> Director Administrative Amendment
<input type="checkbox"/> Administrative Amendment	<input type="checkbox"/> Expedited State	<input type="checkbox"/> State
<input type="checkbox"/> Appeal	<input type="checkbox"/> PSD	
<input type="checkbox"/> Greenfield Facility		
<input type="checkbox"/> Last GACT/Toxics		
<input type="checkbox"/> Last MACT/Toxics	<input type="checkbox"/> TV - State Only	<input type="checkbox"/> TV - 502(b)(10)
<input type="checkbox"/> Modification	<input type="checkbox"/> TV - Expedited	<input type="checkbox"/> TV - Minor
<input type="checkbox"/> Name Change	<input type="checkbox"/> TV - Greenfield	<input type="checkbox"/> TV - Renewal
<input type="checkbox"/> New Permit	<input type="checkbox"/> TV - Reopen for Cause	<input type="checkbox"/> TV - Significant (2Q .0501(c)(2))
<input type="checkbox"/> Ownership Change	<input type="checkbox"/> TV - Administrative	<input type="checkbox"/> TV - Significant
<input type="checkbox"/> Renewal	<input type="checkbox"/> TV - Ownership Change	<input type="checkbox"/> TV - 1 st Time
<input type="checkbox"/> Renewal w/Modification		

PART III - COMPLETENESS CHECKLIST

Required Application Forms Submitted and Completed
 Supporting Materials & Calculations Received
 PE Seal (If 15A NCAC 2Q .0112)
 Modeling Protocol Acceptance
 Confirmation of Pollutants Modeled
 E5 Form (Significant Modifications)

PART IV - GENERAL COMMENTS

Please respond.

PART V - SUPERVISOR REVIEW CHECKLIST

TVEE Updated (by Engineer): _____ TVEE Verified: _____ Supervisor: _____ Chief: _____

PART VI - CLOSEOUT INFORMATION

Regulations Applicable to This Application (indicate all new regulations):

<input type="checkbox"/> NESHAPS/MACT	<input type="checkbox"/> PSD/NSR	<input type="checkbox"/> Toxics/Combustion Sources After 7/10/10
<input type="checkbox"/> NESHAPS/GACT	<input type="checkbox"/> PSD/NSR Avoidance	<input type="checkbox"/> SIP Regulations (list all new):
<input type="checkbox"/> NSPS	<input type="checkbox"/> Existing Source RACT/LAER	_____
<input type="checkbox"/> 2D .1100	<input type="checkbox"/> New Source RACT/LAER	_____
<input type="checkbox"/> 2Q .0711	<input type="checkbox"/> RACT Avoidance	_____
<input type="checkbox"/> 2Q .0705 Last MACT/Toxics	<input type="checkbox"/> RACT/LAER Added Fee*	_____
	<i>*(Notify Connie Horne)</i>	_____

Permit Class Information

Before	After
<input type="checkbox"/> Small	<input type="checkbox"/> Title V
<input type="checkbox"/> Syn. Minor	
<input type="checkbox"/> Title V	
<input type="checkbox"/> Proh. Small	
<input type="checkbox"/> General	

HAP Major Status (after) Major Minor Not Determined
PSD or NSR Status (after) Major Minor

Miscellaneous Multiple Permits at Facility Multi-Site Permit Recycled Oil Condition

Permit Dates Issue: _____ Effective: _____ Expiration: _____

IBEAM Closed Out By: _____ Permit Number: _____ Revision Number: _____

Public Notice Published Public Notice Affidavit (if not noticed via DAQ Website)

Document Manager Updated by Engineer: _____ Date: _____

Comprehensive Application Report for 4600107.13A
 Enviva Pellets Ahoskie, LLC - Ahoskie (4600107)
 Hertford County

12/11/2013

REC'D AIR RECORDS 12/14/13

<u>General Information:</u>		Permit/Latest Revision: 10121/ R01	
Permit code:	State	<u>Application Dates</u>	
Application type:	Modification	Received	Completeness Due
Engineer/Rev. location:	Kevin Godwin/RCO	12/10/2013	Clock Start
Regional Contact:	Yongcheng Chen		Calculated Issue Due
Facility location:	Washington Regional Office		03/10/2014
Facility classification:	Title V	<u>Fee Information</u>	
Clock is OFF	Application is INCOMPLETE	Initial amount:	Date received:
Status is :	Pending acceptance	\$867.00	12/10/2013
		Fund type:	Deposit Slip #:
		2333	
			Location rec'd:
			Location deposited:

<u>Contact Information</u>			
<u>Type</u>	<u>Name</u>	<u>Address</u>	<u>City/State ZIP</u>
Authorized	Peter Najera, VP of Operations	7200 Wisconsin Ave. Suite 1100	Bethesda, MD 20814
Technical/Permit	Joseph Harrell, EHS Manager	142 NC Route 561 East	Ahoskie, NC 27910
			<u>Telephone</u>
			(301) 357-5560
			(252) 209-6032

<u>Acceptance Criteria</u>	
<u>Received?</u>	<u>Acceptance Criteria Description</u>
No	Application fee
Yes	Appropriate number of apps submitted
Yes	Zoning Addressed
N/A	Source recycling/reduction form
Yes	Authorized signature
Yes	PE Seal
No	Application contains toxic modification(s)

<u>Completeness Criteria</u>	
<u>Received?</u>	<u>Complete Item Description</u>

Comprehensive Application Report for 4600107.13A
 Enviva Pellets Ahoskie, LLC - Ahoskie (4600107)
 Hertford County

12/11/2013

<u>Event</u>	<u>Start</u>	<u>Due</u>	<u>Complete</u>	<u>Comments</u>	<u>Staff</u>
TV - Acknowledgment/Incomplete add info requested	01/01/2013	01/09/2014		Need \$22	kmhash

Regulations Pertaining to this Permit	
<u>Reference Rule</u>	<u>Regulation Description</u>
2D .0515	Particulates Miscellaneous Industrial Processes
2D .0516	Sulfur Dioxide Emissions Combustion Sources
2D .0521	Control of Visible Emissions

Audit Information Pertaining to this Application		
<u>Column Name</u>	<u>Date Changed</u>	<u>Old Value</u>
		<u>New Value</u>
		<u>Editor</u>



North Carolina Department of Environment and Natural Resources

Division of Air Quality
Sheila C. Holman
Director

Pat McCrory
Governor

John E. Skvarla, III
Secretary

CERTIFIED MAIL: 70101870000133232204
RETURN RECEIPT REQUESTED

December 11, 2013

Mr. Peter Najera
VP of Operations
Enviva Pellets Ahoskie, LLC
7200 Wisconsin Ave. Suite 1100
Bethesda, MD 20814

SUBJECT: Receipt of Permit Application
Modification of Permit No. 10121R01
Application No. 4600107.13A
Enviva Pellets Ahoskie, LLC
Facility ID: 4600107, Ahoskie, Hertford County

Dear Mr. Najera:

Your air permit application (4600107.13A) for Enviva Pellets Ahoskie, LLC, located in Hertford County, North Carolina was received by this Division on December 10, 2013.

Submittal of your air permit application request must include the following items:

A permit application processing fee:

Under the new permit application processing fee schedule effective January 1, 2013, your required fee is \$889.00.

The amount of fee monies (Check No.) received was \$867.00. The amount due is \$22.00.

Pending review of your application and based on the required fee amount indicated above, you may be required to pay an additional amount.

Number of Copies of Application:

The appropriate number of copies of the application was received.

Permitting Section
1641 Mail Service Center, Raleigh, North Carolina 27699-1641
217 West Jones Street, NC 27603
Phone: 919-707-8405 / FAX: 919-715-0717
Internet: www.ncair.org

REC'D AIR RECORDS MGMT
DEC 14 13

Mr. Najera
December 11, 2013
Page 2

Local zoning and subdivision ordinances consistency determination:

Your application **did** contain the complete request for consistency determination.

Signature of An Authorized Official:

Your application **was** signed by an authorized official as defined by 15A NCAC 2Q.0304(j).

PE Seal Requirement:

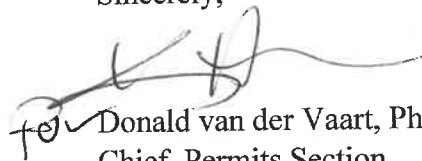
The appropriate PE Seal **was** received.

In summary, this application **did not** contain all the required elements as indicated above and has not been accepted for processing. This information must be submitted and contain the above requested information. The requested information must be submitted to our Office within thirty (30) days or the application may be terminated.

Pursuant to 15A NCAC 2Q.0507, the Permittee is required to address any requirements that becomes applicable after the date a Title V application is filed prior to release of a Title V draft permit. If necessary, please update your Title V application as soon as practical by submitting three copies of the required forms, plus one confidential copy if appropriate, to Division of Air Quality, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. Please include an A1 form with the words, "Initial Title V Application Update" typed or written across the top and a signed E5 form with a revised date.

Should you have any questions concerning this matter, please contact Kevin Godwin at (919) 707-8480.

Sincerely,



Donald van der Vaart, Ph.D., P.E., J.D.
Chief, Permits Section

cc: Washington Regional Office Files