Asheville-Buncombe Air Quality Agency
APPLICATION REVIEW SUMMARY

SECTION A: FACILITY INFORMATION			
Company Name:	North End Stump & Brush Recycling		
Site Name:	North End Stump & Brush Recycling		
Mailing Address:	19 Shepherds Hollow, Weaverville, NC 28787		
Site Address:	1918 New Stock Road, Weaverville, NC 28787		
General Description of Business:	Wood waste yard		
Facility Classification:	Small	**Site Status:**	New

SECTION B: APPLICATION INFORMATION			
Date Of Application:	January 1, 2026	**Application Tracking No.:**	N/A
Date Complete Application Received:	January 21, 2026	**Board Meeting Date:**	March 12, 2026
Confidentiality Requested?	No	**Board Agenda Type:**	New
Application Results:	The purpose of this review is to issue a small source permit for an air curtain incinerator subject to NSPS EEEE.		
Permit No. / Date Issued by Application:	11-926-28 / March 12, 2026		
Permit No. / Date Voided by Application:	N/A		

SECTION C: REGULATORY INFORMATION	
AB Air Quality Regulations:	4.0524, 4.1904, 17.0500, 17.0311

SECTION D: FACILITY-WIDE EMISSIONS INFORMATION		
Pollutants Reviewed as a Result of this Application or AB Air Quality Action:	**Actual Emissions (TONS/YR) [1]**	**Potential Emissions (TONS/YR) [1]**
PM-Total	--	2.68
PM-10/PM-2.5	--	1.12
SO_2	--	0.25
NO_X	--	3.52
CO	--	5.11
VOC	--	2.15
Greenhouse Gases (GHG), $CO2_e$	--	6,114.3
All Hazardous Air Pollutants (HAPs)	--	0.001
List all HAPs >10TPY of potential emissions	None	

*Emission numbers denoted with an (*) reflect "controlled" emissions (i.e. emissions reduced by a pollution control device). [1]Potential emissions reported to be <100 are capped at those levels with federally enforceable permit limits.

IN COMPLIANCE WITH EMISSION STANDARDS / RECOMMEND APPROVAL			
Prepared By:	James C. Raiford/	**Date Completed:**	2/27/2026
Reviewed By:	Ashley J. Featherstone/	**Date Reviewed:**	3/4/2026
Director:	Ashley J. Featherstone/	**Date Approved:**	3/4/2026

SECTION A DETAILS

FACILITY INFORMATION

[Detailed discussion of any items in Section A]

The North End Stump & Brush Recycling (North End) has applied for a small source permit to operate an air curtain incinerator (ACI) at the address listed above. They receive stumps and brush from customers at their wood waste yard. The facility plans to operate the incinerator to dispose of excess tree waste that is brought to the site by customers that they can't chip or otherwise use. The air curtain incinerator will handle only wood waste/clean lumber/yard waste. No municipal solid waste, treated/painted wood, or prohibited materials. They plan to operate no more than 8 hours per day.

On January 3, 2025 they requested to operate the ACI to dispose of storm debris from Helene. The agency granted permission for this operation in accordance with the disaster declaration and EPA's no action assurance letter. The facility would like to transition to operate the unit to process other wood waste going forward.

Previously, according to Section 129(e) and Title V of the Clean Air Act required the owner or operator of each ACI subject to 40 CFR Part 60 Subpart EEEE to apply for and obtain a Title V operating permit pursuant to 40 CFR 60.2974. However, on April 17, 2024, EPA revised this rule to remove the Title V permitting requirements for ACI units that burn only wood waste, clean lumber, and yard waste. Therefore, the facility will be classified as a small source.

SECTION B DETAILS

APPLICATION INFORMATION

[List all emission sources (permitted and exempt) reviewed as a result of this application, their associated control devices and pollutants. Provide a detailed discussion of any other items in Section B at bottom under "Application Notes"]

Emission Source ID	Emission Source Description 1. Type, manufacturer, capacity 2. Control device with ID (if any)	Pollutant(s) Emitted	Miscellaneous Notes
AC1	AirBurners BurnBoss T24	PM, PM-10, PM-2.5, CO, SO2, NOx, VOC, CO2e	Maximum charge rate of 1 ton per hour. Manufactured in 2024. Powered by a 12.5 Horsepower EPA Tier 4 emission rated diesel-fired engine.

APPLICATION NOTES

The facility emailed Buncombe County Planning Department on January 21, 2026 asking for a zoning consistency determination. The Agency has not received a zoning consistency determination from Buncombe County planning, but fifteen days have elapsed since the email and therefore fulfills the requirement that the zoning authority is notified. Specific Condition 2.E states that the permittee is required to comply with all lawfully adopted local ordinances, and that the local zoning authority is responsible for enforcing those ordinances. The application fee was received on January 27, 2026.

The planning department has indicated that they will require a special use permit for this facility. This is independent of the air permit and as stated above, the permit will include a statement about complying with all zoning and other ordinances.

SECTION C DETAILS

REGULATORY INFORMATION

(Identify the AB Air Quality Regulations reviewed because of this application. At a minimum, the regulations already listed should be reviewed and reason given for applicability or non-applicability. If a regulation has a standard, list the standard and indicate how the source is in compliance.)

AB Air Quality Regulation Number / Title	Emission Source ID No(s). Subject	Notes on Regulation (Compliance demonstration, applicability, etc.)
17.0500 – Title V Procedures	NA	Title V does not apply to this facility at this time. Calculated potential emissions for this facility are below Title V permitting thresholds. Previously, according to Section 129(e) and Title V of the Clean Air Act required the owner or operator of each air curtain incinerator (ACI) subject to 40 CFR Part 60 Subpart EEEE to apply for and obtain a Title V operating permit pursuant to 40 CFR 60.2974. However, on April 17, 2024, EPA revised this rule to remove the Title V permitting requirements for ACI units that burn only wood waste, clean lumber, and yard waste.
4.0524 – New Source Performance Standards	AC1	NSPS does apply to this facility. This facility is subject to 40 CFR Part 60 Subpart EEEE "Standards of Performance for Other Solid Waste Incineration Units". Visible emissions are limited to 10 percent opacity (6-minute average), except 35 percent opacity (6-minute average) during the startup period that is within the first 30 minutes of operation. EPA Method 9 testing for opacity is required initially and annually.
4.1904 – Air Curtain Burners	AC1	Air quality permits are required for air curtain burners subject to 40 CFR Part 60 Subpart CCCC 60.2245 through 60.2260. WNCRAQA Code 4.1904 has several work practice standards that apply, including a setback requirement of 300 feet from the nearest occupied dwelling not located on the property where the burning is conducted.
4.1806 – Control and Prohibition of Odorous Emissions	AC1	The facility must not cause or contribute to objectionable odors beyond the facility's boundary.

REGULATORY NOTES

17.0311 Permitting of Facilities at Multiple Temporary Sites

Since air curtain burners are often built as temporary mobile operations, AB Air Quality Rule 17.0311 states that the Director can issue a single permit for operation at multiple temporary sites under the following conditions.

17.0311 Permitting of Facilities at Multiple Temporary Sites

(a) The Director may issue a single permit authorizing emissions from a facility or source at multiple temporary sites.

(b) Permits for facilities at multiple temporary sites shall include:
(1) identification of each site;
(2) conditions that will assure compliance with all applicable requirements at all approved sites;
(3) a requirement that the permittee notify the Agency at least 10 days in advance of each change of each site; and
(4) conditions that assure compliance with all other provisions of this Section.

A condition will be included in the permit to require that the permittee notify the agency at least 10 days in advance of each change of location and obtain a zoning consistency letter for each location.
North Carolina General Statute § 143-215.108(f) requires that applications for air quality permits for new or expanded facilities include a request for a zoning consistency determination.

4.1904 Air Curtain Burners
Chapter 4.1904(b)(6), (b)(9), and (c) of our current rules list operating and recordkeeping requirements that have been removed from the most recent version of North Carolina's rules for air curtain incinerators (2D.1904) and those requirements were not listed in this permit since the Agency will update those rules this year.

Chapter 4.1904(b)(5) requires dispersion modeling analysis to be performed to protect the ambient air quality standard and prevention of significant deterioration (PSD) increment for particulate. This modeling analysis was performed by James Raiford of this Agency and documented via memorandum on February 27, 2026. This modeling shows compliance with the total solid particulate state standard, and the PM10 and PM2.5 National Ambient Air Quality Standards. The model was conservatively run assuming 24 hours of operation. This facility is limited to operating for only 10 hours a day per Chapter 4.1904(c)(4), so compliance with the standards is expected. See the table below. The modeling demonstration is documented here and not included in the permit.

Pollutant	Averaging Period	Background Concentration ($\mu g/m^3$)	Modeled Impact ($\mu g/m^3$)	Total ($\mu g/m^3$)	AAQS ($\mu g/m^3$)	% AAQS
PM2.5	24-hour	16	4.37	20.37	35	58.20%
	Annual	6.1	0.67	6.77	9	75.22%
PM10	24-hour	12.4	7.65	20.05	150	13.37%
TSP	24-hour	--	14.64	14.64	150	9.76%
	Annual	--	0.88	0.88	75	1.17%

SECTION D DETAILS				
EMISSION INFORMATION				
Calculation Method Codes (List all that apply)	1 = Stack test result 2 = Material (mass) balance 3 = EPA approved information (AP-42, CTG, etc.) 4 = Other (specify in table below)			
Calculation Rejection Codes (List all that apply)	1 = Calculation error 2 = Wrong emission factor(s) used 3 = Control efficiency(ies) not accepted 4 = Other (specify in table below)			
Emission Source (ID No.)	**Calculation Method Code**	**Accept or Reject?**	**Calculation Rejection Code**	**AB Air Quality Calculations Attached?**
AC1	3,4	NA	NA	Yes

EMISSION NOTES

Emissions calculations come from two sources: San Joaquin Valley APCD, and USDA Forest Service. SJV APCD was used for PM, SO_x, NOX, CO and VOC, while Greenhouse Gas emissions were obtained from USDA Forest Service. Emissions were also calculated for the engine using AP-42.

Total emissions included those from the internal combustion engine.

SECTION E

SUPPORTING DOCUMENTATION

(Provide brief description of any attachments)

1. Draft of permit
2. Emissions estimates prepared by agency staff
3. Permit application
4. Zoning consistency email
5. Modeling Memo