

**Air Quality Assessment
Alum Springs Convenience Center
(AI 43827)**

Prepared with the assistance of



Process Description and Emission Calculations Alum Springs Convenience Center (AI 43827)

Process Description

The Alum Springs Convenience Center in Boyle County is a municipal waste collection facility that utilizes this space as a compost dump site for the purpose of tree and leaf removal and disposal, serving the Boyle County area. The facility reached out to ECAP on June 17, 2025 to obtain air permit assistance for their portable air curtain incinerator. The facility began operating the burner on September 9, 2025. The facility has one full time employee and nine that are certified to operate the burner. It is open 9:00AM-5:00 PM Tuesday through Saturday and is closed for major holidays.

The facility accepts wood debris from residents of all incorporated cities and the Public Works Department. Limbs and brush are stacked in place until ready to be placed in the AirBurner. The resulting ash, or biochar, is stored on site and given away to any Boyle County citizen/farmer.

The AirBurner Fire Box (Model S330) has a maximum rated capacity of burning up to 13 tons/hr of wood waste, but they typically run it at around three to four tons per hour. The unit is stationary at this time; however, it can be dragged around the site on its skids or moved via crane attachment. The machine is equipped with a 74 HP Turbo Diesel Engine (HATZ 4H50TIC) which powers the air fan. The facility plans on using the equipment daily to get through their large backlog of woody debris from the past year; once caught up, their tentative operating plan is to use it quarterly or as needed. Using a diesel engine driven fan, this Airburner generates a curtain of air with a very particular mass flow and velocity. This curtain of air acts as a trap over the top of the thermal-ceramic lined firebox (burn chamber). The wood debris is dumped into the Firebox and then dry brush is ignited with a propane torch. Once the fire has gained strength, the air curtain is turned on; it traps most of the smoke particles and causes them to re-burn directly under the air curtain where the temperatures can exceed 1800° F. These Airburners do not inject any fuels into the fire; it is sustained only by adding more wood feedstock.

Boyle County cuts larger pieces as needed to fit into the burner, as regular grinding was not economically feasible. Water is onsite to use as needed to control any particulate emissions or fires.

There is no fuel tank onsite; Boyle County personnel utilize a propane torch to light the unit at start up and purchase additional fuel as needed for the torch and diesel engine.

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Emission Calculations

Due to the unknown usage frequency of this equipment, potential operations of 8,760 hours per year were used to determine potential facility wide emissions for all operations.

Emission Points

EP01 – Portable Air Curtain Incinerator

- Throughput: 13 tons/hr.
- Emission Factors: AP-42 1.6-3; AP-42 1.6-4; 40 CFR 98, Table C-2; Clerico, B. and Villegas, E. (2017). Air Curtain Incinerator Emissions Factors Determinations. Table 3: Emissions Factors for Air Curtain Incinerator Burning Woody Biomass; Susott, R. A., Babbit, R. Lincoln, E., Hao, W. M. (2002). Reducing PM2.5 Emissions Through Technology. USDA Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory, Missoula, MT; Pulaski Co Composting Facility (AI 167975).
- Control: None Known

EP02 – 74 HP Diesel Engine

- Throughput: 3.77E-03 gal1000/hr
- Emission Factors: AP-42 3.3-1
- Control: None Known

Applicable Regulations

- 401 KAR 59:020 - New Incinerators
- 401 KAR 60:005, Section 2(2)(cccc), 40 C.F.R. 60.2880 through 60.2977, Tables 1 through 4 (Subpart EEEE), Standards of Performance for Other Solid Waste Incineration Units
- 401 KAR 63:020 – Potential Hazardous Material or Toxic Substance
- 40 CFR 63, Subpart ZZZZ—NESHAP for Stationary RICE

Recommendation

Based on potential emission calculations and applicable requirements, the Kentucky Environmental Compliance Assistance Program is recommending *that Alum Springs Convenience Center* file an application for a **Conditional Major Permit**. Facility-wide emissions are included below.

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Facility Wide Emissions

Total Emissions		
Pollutant	Uncontrolled TPY	Controlled TPY
CO	150.87	150.87
NOx	57.17	57.17
PT	74.03	74.03
PM10	74.03	74.03
PM2.5	62.65	62.65
SO2	6.35	6.35
VOC	51.35	51.35
Carbon Dioxide	206266.63	206266.63
Methane	79.73	79.73
Nitrous Oxide	9.40	9.40
Acenaphthene	4.70E-04	4.70E-04
Acenaphthylene	2.57E-03	2.57E-03
Acetaldehyde	4.27E-01	4.27E-01
Acetophenone	1.64E-06	1.64E-06
Acrolein	7.12E-01	7.12E-01
Anthracene	1.54E-03	1.54E-03
Benzene	2.15	2.15
Benzo[A]Anthracene	3.71E-05	3.71E-05
Benzo[A]Pyrene	1.33E-03	1.33E-03
Benzo[B]Fluoranthene	5.15E-05	5.15E-05
Benzo[G,H,I]Perylene	4.88E-05	4.88E-05
Benzo[K]Fluoranthene	1.88E-05	1.88E-05
Bis (2-Ethylhexyl) Phthalate	2.41E-05	2.41E-05
Methyl Bromide	7.69E-03	7.69E-03
Methyl Ethyl Ketone	2.77E-03	2.77E-03
Carbon Tetrachloride	2.31E-02	2.31E-02
Chlorine	4.05E-01	4.05E-01
Chlorobenzene	1.69E-02	1.69E-02
Chloroform	1.43E-02	1.43E-02
Methyl Chloride	1.18E-02	1.18E-02
Chrysene	2.03E-05	2.03E-05
Dibenzo (A,H) Anthracene	5.98E-06	5.98E-06
1,2-Dibromoethane	2.82E-02	2.82E-02
1,2-Dichloroethane	1.49E-02	1.49E-02
Dichloromethane	1.49E-01	1.49E-01

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1,2-Dichloropropane	1.69E-02	1.69E-02
2,4-Dinitrophenol	9.22E-05	9.22E-05
Ethyl Benzene	1.59E-02	1.59E-02
Fluoranthene	8.37E-04	8.37E-04
Fluorene	1.81E-03	1.81E-03
Formaldehyde	2.26	2.26
Hydrochloric Acid	9.74	9.74
Indeno (1,2,3-Cd) Pyrene	4.54E-05	4.54E-05
2 Methyl naphthalene	8.20E-05	8.20E-05
Naphthalene	4.99E-02	4.99E-02
4-Nitrophenol	5.64E-07	5.64E-07
Phenanthrene	3.65E-03	3.65E-03
Phenol	2.61E-02	2.61E-02
Propionaldehyde	3.13E-02	3.13E-02
Pyrene	1.91E-03	1.91E-03
Styrene	9.74E-01	9.74E-01
2,3,7,8-Tetrachlorodibenzo-p-Dioxin	4.41E-09	4.41E-09
Toluene	4.72E-01	4.72E-01
1,1,1-Trichloroethane	1.59E-02	1.59E-02
2,4,6-Trichlorophenol	1.13E-05	1.13E-05
Vinyl Chloride	9.22E-03	9.22E-03
Xylenes (Total)	1.35E-02	1.35E-02
Antimony, Total (as Sb)	4.05E-03	4.05E-03
Arsenic (and Compounds)	1.13E-02	1.13E-02
Beryllium Compounds	5.64E-04	5.64E-04
Cadmium (and Compounds)	2.10E-03	2.10E-03
Cobalt (and Compounds)	3.33E-03	3.33E-03
Manganese and Manganese Compounds	8.20E-01	8.20E-01
Mercury (and Compounds)	1.79E-03	1.79E-03
Nickel (and Compounds)	1.69E-02	1.69E-02
Phosphorus (as P), Total	1.38E-02	1.38E-02
Selenium (and Compounds)	1.43E-03	1.43E-03
Total HAPS	18.48	18.48

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Division for Air Quality

300 Sower Boulevard
 Frankfort, KY 40601
 (502) 564-3999

DEP7007AI

Administrative Information

- Section AI.1: Source Information
- Section AI.2: Applicant Information
- Section AI.3: Owner Information
- Section AI.4: Type of Application
- Section AI.5: Other Required Information
- Section AI.6: Signature Block
- Section AI.7: Notes, Comments, and Explanations

Additional Documentation

Additional Documentation attached

Source Name: Alum Springs Convenience Center

KY EIS (AFS) #: 21- TBD

Permit #: TBD

Agency Interest (AI) ID: 43827

Date: 10/15/2025

Section AI.1: Source Information

Physical Location	Street:	<u>775 Yates Road</u>		
Address:	City:	<u>Danville</u>	County:	<u>Boyle</u>
			Zip Code:	<u>40422</u>
Mailing Address:	Street or P.O. Box:	<u>1862 S. Danville Bypass Road</u>		
	City:	<u>Danville</u>	State:	<u>KY</u>
			Zip Code:	<u>40422</u>

Standard Coordinates for Source Physical Location

Longitude: -84.83056 (decimal degrees) **Latitude:** 37.59583 (decimal degrees)

Primary (NAICS) Category: Solid Waste Combustors and Incinerators **Primary NAICS #:** 562213

Classification (SIC) Category:

Refuse Systems

Primary SIC #: 4953

Briefly discuss the type of business conducted at this site:

Alum Springs Convenience Center is a municipal waste facility that utilizes this compost dump site for the purpose of tree and leaf removal and disposal, serving the local government and citizens of Boyle County.

Description of Area Surrounding Source:

- Rural Area
 Industrial Park
 Residential Area
 Urban Area
 Industrial Area
 Commercial Area

Is any part of the source located on federal land?
 Yes
 No

Number of Employees:

9

Approximate distance to nearest residence or commercial property: 60 feet through trees

Property Area: 2 acres

Is this source portable? Yes No

What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?

NPDES/KPDES: Currently Hold Need N/A

Solid Waste: Currently Hold Need N/A

RCRA: Currently Hold Need N/A

UST: Currently Hold Need N/A

Type of Regulated Waste Activity:

- Mixed Waste Generator
 Generator
 Recycler
 Other: _____
 U.S. Importer of Hazardous Waste
 Transporter
 Treatment/Storage/Disposal Facility
 [N/A]

Section AI.2: Applicant Information

Applicant Name: Alum Springs Convenience Center

Title: (if individual)

Mailing Address: **Street or P.O. Box:** 1862 S. Danville Bypass Road
City: Danville **State:** KY **Zip Code:** 40422

Email: (if individual) angela.muncy@boylecountyky.gov

Phone: 859-319-4803

Technical Contact

Name: Brittany Kring

Title: Environmental Scientist Advisor

Mailing Address: **Street or P.O. Box:** 300 Sower Blvd
City: Frankfort **State:** KY **Zip Code:** 40601

Email: brittany.kring@ky.gov

Phone: 502-782-2182

Air Permit Contact for Source

Name: Trille Bottom

Title: Boyle County Judge Executive

Mailing Address: **Street or P.O. Box:** 321 West Main Street
City: Danville **State:** KY **Zip Code:** 40422

Email: trille.bottom@boylecountyky.gov

Phone: 859-238-1100 ext 118

Section AI.3: Owner Information

EP7007AI

Owner same as applicant

Name: _____

Title: _____

Mailing Address: **Street or P.O. Box:** _____
City: _____ **State:** _____ **Zip Code:** _____

Email: _____

Phone: _____

List names of owners and officers of the company who have an interest in the company of 5% or more.

Name

Position

Section AI.4: Type of Application

Current Status: Title V Conditional Major State-Origin General Permit Registration None

Requested Action: Name Change Initial Registration Significant Revision Administrative Permit Amendment
(check all that apply) Renewal Permit Revised Registration Minor Revision Initial Source-wide Operating Permit
 502(b)(10)Change Extension Request Addition of New Facility Portable Plant Relocation Notice
 Revision Off Permit Change Landfill Alternate Compliance Submittal Modification of Existing Facilities
 Ownership Change Closure

Requested Status: Title V Conditional Major State-Origin PSD SR Other: _____

Is the source requesting a limitation of potential emissions? Yes No

Pollutant:	Requested Limit:	Pollutant:	Requested Limit:
<input type="checkbox"/> Particulate Matter	_____	<input type="checkbox"/> Single HAP	_____
<input type="checkbox"/> Volatile Organic Compounds (VOC)	_____	<input type="checkbox"/> Combined HAPs	_____
<input checked="" type="checkbox"/> Carbon Monoxide	90 tons	<input type="checkbox"/> Air Toxics (40 CFR 68, Subpart F)	_____
<input type="checkbox"/> Nitrogen Oxides	_____	<input type="checkbox"/> Carbon Dioxide	_____
<input type="checkbox"/> Sulfur Dioxide	_____	<input type="checkbox"/> Greenhouse Gases (GHG)	_____
<input type="checkbox"/> Lead	_____	<input type="checkbox"/> Other	_____

For New Construction:

Proposed Start Date of Construction: **Proposed Operation Start-Up Date:** *(MM/YYYY)*

(MM/YYYY) Existing 10/2025 *(MM/YYYY)* ASAP

For Modifications:

Proposed Start Date of Modification: **Proposed Operation Start-Up Date:** *(MM/YYYY)*

(MM/YYYY) *(MM/YYYY)* N/A

Applicant is seeking coverage under a permit shield. Yes No **Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.**

Section AL5 Other Required Information

Indicate the documents attached as part of this application:

- | | |
|--|--|
| <input type="checkbox"/> DEP7007A Indirect Heat Exchangers and Turbines | <input type="checkbox"/> DEP7007CC Compliance Certification |
| <input type="checkbox"/> DEP7007B Manufacturing or Processing Operations | <input type="checkbox"/> DEP7007DD Insignificant Activities |
| <input checked="" type="checkbox"/> DEP7007C Incinerators and Waste Burners | <input checked="" type="checkbox"/> DEP7007EE Internal Combustion Engines |
| <input type="checkbox"/> DEP7007F Episode Standby Plan | <input type="checkbox"/> DEP7007FF Secondary Aluminum Processing |
| <input type="checkbox"/> DEP7007J Volatile Liquid Storage | <input type="checkbox"/> DEP7007GG Control Equipment |
| <input type="checkbox"/> DEP7007K Surface Coating or Printing Operations | <input type="checkbox"/> DEP7007HH Haul Roads |
| <input type="checkbox"/> DEP7007L Mineral Processes | <input type="checkbox"/> Confidentiality Claim |
| <input type="checkbox"/> DEP7007M Metal Cleaning Degreasers | <input type="checkbox"/> Ownership Change Form |
| <input checked="" type="checkbox"/> DEP7007N Source Emissions Profile | <input type="checkbox"/> Secretary of State Certificate |
| <input type="checkbox"/> DEP7007P Perchloroethylene Dry Cleaning Systems | <input type="checkbox"/> Flowcharts or diagrams depicting process |
| <input type="checkbox"/> DEP7007R Emission Offset Credit | <input type="checkbox"/> Digital Line Graphs (DLG) files of buildings, roads, etc. |
| <input type="checkbox"/> DEP7007S Service Stations | <input checked="" type="checkbox"/> Site Map |
| <input type="checkbox"/> DEP7007T Metal Plating and Surface Treatment Operations | <input checked="" type="checkbox"/> Map or drawing depicting location of facility |
| <input type="checkbox"/> DEP7007V Applicable Requirements and Compliance Activities | <input type="checkbox"/> Safety Data Sheet (SDS) |
| <input type="checkbox"/> DEP7007Y Good Engineering Practice and Stack Height Determination | <input type="checkbox"/> Emergency Response Plan |
| <input type="checkbox"/> DEP7007AA Compliance Schedule for Non-complying Emission Units | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> DEP7007BB Certified Progress Report | |

Section AL6: Signature Block

I, the undersigned, hereby certify under penalty of law, that I am a responsible official*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.

Rille L. Bottom
 Authorized Signature

Rille L. Bottom
 Type or Printed Name of Signatory

10/30/25
 Date

Boyle Co Judge Exec
 Title of Signatory

*Responsible official as defined by 401 KAR 52:001.

Division for Air Quality 300 Sower Boulevard Frankfort, KY 40601 (502) 564-3999	<h2 style="margin: 0;">DEP7007V</h2> <h3 style="margin: 0;">Applicable Requirements and Compliance Activities</h3> <p style="margin: 5px 0;"><input type="checkbox"/> Section V.1: Emission and Operating Limitation(s)</p> <p style="margin: 5px 0;"><input type="checkbox"/> Section V.2: Monitoring Requirements</p> <p style="margin: 5px 0;"><input type="checkbox"/> Section V.3: Recordkeeping Requirements</p> <p style="margin: 5px 0;"><input type="checkbox"/> Section V.4: Reporting Requirements</p> <p style="margin: 5px 0;"><input type="checkbox"/> Section V.5: Testing Requirements</p> <p style="margin: 5px 0;"><input type="checkbox"/> Section V.6: Notes, Comments, and Explanations</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center; padding: 5px;">Additional Documentation</th> </tr> <tr> <td style="padding: 5px;"> <input type="checkbox"/> Complete DEP7007AI </td> </tr> </table>	Additional Documentation	<input type="checkbox"/> Complete DEP7007AI
Additional Documentation				
<input type="checkbox"/> Complete DEP7007AI				

Source Name: Alum Springs Convenience Center

KY EIS (AFS) #: 21- TBD

Permit #: TBD

Agency Interest (AI) ID: 43827

Date: 10/15/2025

Section V.1: Emission and Operating Limitation(s)

Emission Unit #	Emission Unit Description	Applicable Regulation or Requirement	Pollutant	Emission Limit (if applicable)	Voluntary Emission Limit or Exemption (if applicable)	Operating Requirement or Limitation (if applicable)	Method of Determining Compliance with the Emission and Operating Requirement(s)
EP01	Air Curtain Incinerator	401 KAR 59:020	PM, Carbon Dioxide	N/A	90 tons CO	The permittee shall not cause, suffer, allow, or permit the emission produced by the incineration of any substance to have greater than 20% opacity	monitor location of incinerator at all times, type and quantity of material burned, and charging rate (in tons) on a monthly basis; maintain a log of qualitative visual observations made including date, time, initials of observer, whether emissions were observed (yes/no), any US EPA Method 9 readings, and any corrective action taken; submit results of any opacity tests within 12 months of the previous report and keep reports onsite for a period of 5 years.
		401 KAR 60:005 Section 2(2)(cccc), 40 CFR 60.2880 through 60.2977, Tables 1 through 4 (Subpart EEEE)	Cadmium, CO, Dioxins, Hydrogen Chloride, Lead, Mercury, Nitrogen Oxides, PM, Sulfur Dioxide	N/A	N/A	Air curtain Incinerators that burn only the materials listed in 40 CFR 60.2888(b)(1) through (4) are required to meet only the requirements in 40 CFR 60.2970 and 60.2974 and are exempt from all other requirements of 40 CFR 60 Subpart EEEE	Monitor and maintain records of the types of waste combusted on a monthly basis.

Emission Unit #	Emission Unit Description	Applicable Regulation or Requirement	Pollutant	Emission Limit (if applicable)	Voluntary Emission Limit or Exemption (if applicable)	Operating Requirement or Limitation (if applicable)	Method of Determining Compliance with the Emission and Operating Requirement(s)
		401 KAR 63:020	Methane, Nitrous Oxide, Acenaphthalene, Acenaphthylene, Acetaldehyde, Acetophenone, Acrolein, Anthracene, Benzene, Benzo[A]Anthracene, Benzo[A]Pyrene, Benzo[B]Fluoranthene, Benzo[G,H,I]Perylene, Benzo[K]Fluoranthene, Bis (2-Ethylhexyl) Phthalate, Methyl Bromide, Methyl Ethyl Ketone, Carbon Tetrachloride, Chlorine, Chlorobenzene, Chloroform, Methyl Chloride, Chrysene, Dibenzo (A,H) Anthracene, 1,2-Dibromoethane, 1,2-Dichloromethane, Dichloromethane, 1,2-Dichloropropane, 2,4-Dinitrophenol, Ethyl Benzene, Fluoranthene, Formaldehyde, Hydrochloric Acid, Indeno (1,2,3-Cd) Pyrene, 2 Methylnaphthalene, Naphthalene, 4-Nitrophenol, Phenanthrene, Phenol, Propionaldehyde, Pyrene, Styrene, 2,3,7,8-Tetrachlorodibenzo-p-Dioxin, Toluene, 1,1,1-Trichloroethane, 2,4,6-Trichlorophenol, Vinyl Chloride, Xylenes, Antimony, Arsenic, Beryllium compounds, Cadmium, Cobalt, Manganese, Mercury, Nickel, Phosphorus, Selenium	N/A	N/A	Persons responsible for a source from which hazardous matter or toxic substances may be emitted shall provide the utmost care and consideration, in the handling of these materials, to the potentially harmful effects of the emissions resulting from such activities. No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals, and plants	monthly record or rolling total of materials used
EP02	Diesel Fired Generator	401 KAR 60:005 Section 2(2)(ddd), 40 CFR 60.4200 through 60.4219 Tables 1 through 8 (Subpart IIII)	Nitrogen Oxides, PM	N/A	N/A	permittee shall use diesel fuel that meets the requirements of 40 CFR 1090.305 for non-road diesel fuel	monitor amount of fuel combusted on a monthly basis and maintain records
		40 CFR 63, Subpart ZZZZ	Nitrogen Oxides, PM	N/A	N/A	met by meeting requirements of 40 CFR 60 Subpart IIII	comply with subpart IIII

Section V.2: Monitoring Requirements					
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Monitored	Description of Monitoring
EP01	Air Curtain Incinerator	PM	401 KAR 59:020	Rates and hours of operation	monthly charging rates, hours of operation
		PM	401 KAR 59:020	Visible emissions	Qualitative observations when the unit is on, Method 9 test results if emissions are visible
		Cadmium, CO, Dioxins, Hydrogen Chloride, Lead, Mercury, Nitrogen Oxides, PM, Sulfur Dioxide	401 KAR 60:005 Section 2(2)(cccc), 40 CFR 60.2880 through 60.2977, Tables 1 through 4 (Subpart EEEE)	Types of waste	Monitor types of waste combusted monthly
		Methane, Nitrous Oxide, Acenaphthalene, Acenaphthylene, Acetaldehyde, Acetophenone, Acrolein, Anthracene, Benzene, Benzo[A]Anthracene, Benzo[A]Pyrene, Benzo[B]Fluoranthene, Benzo[G,H,I]Perylene, Benzo[K]Fluoranthene, Bis (2-Ethylhexyl) Phthalate, Methyl Bromide, Methyl Ethyl Ketone, Carbon Tetrachloride, Chlorine, Chlorobenzene, Chloroform, Methyl Chloride, Chrysene, Dibenzo (A,H) Anthracene, 1,2-Dibromoethane, 1,2-Dichloromethane, Dichloromethane, 1,2-Dichloropropane, 2,4-Dinitrophenol, Ethyl Benzene, Fluoranthene, Formaldehyde, Hydrochloric Acid, Indeno (1,2,3-Cd) Pyrene, 2 Methylnaphthalene, Naphthalene, 4-Nitrophenol, Phenanthrene, Phenol, Propionaldehyde, Pyrene, Styrene, 2,3,7,8-Tetrachlorodibenzo-p-Dioxin, Toluene, 1,1,1-Trichloroethane, 2,4,6-Trichlorophenol, Vinyl Chloride, Xylenes, Antimony, Arsenic, Beryllium compounds, Cadmium, Cobalt, Manganese, Mercury, Nickel, Phosphorus, Selenium	401 KAR 63:020	Emissions	Monthly recording or rolling totals of what's combusted
EP02	Diesel Fired Generator	Nitrogen oxides, PM	401 KAR 60:005 Section 2(2)(dddd), 40 CFR 60.4200 through 60.4219 Tables 1 through 8 (Subpart IIII)	Fuel combusted	Monitor amount of fuel combusted on monthly basis

Section V.3: Recordkeeping Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Recorded	Description of Recordkeeping
EP01	Air Curtain Incinerator	PM	401 KAR 59:020	Material Processed	Daily charging rates, hours of operation on monthly basis
		PM	40 CFR 60	Tests	Keep records of all initial and annual tests onsite for at least 5 years and make them available upon request
		PM	401 KAR 63:020	Material Processed	Monthly record or rolling totals of materials processed
EP02	Diesel Fired Generator	na	401 KAR 60:005 Section 2(2)(dddd), 40 CFR 60.4200 through 60.4219 Tables 1 through 8 (Subpart IIII)	Maintenance Records	Maintainence records on the engine
		VOC/HAP	40 CFR 63, Subpart ZZZZ	Throughput	monitor amount of fuel combusted on a monthly basis and maintain records

Section V.4: Reporting Requirements					
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Reported	Description of Reporting
EP01	Air Curtain Incinerator	PM	401 KAR 59:020	Testing	Submit initial test results no later than 60 days following initial test. Submit results of annual opacity test within 12 months following the previous report.

Section V.5: Testing Requirements					
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Tested	Description of Testing
EP01	Air Curtain Incinerator	PM	401 KAR 59:020	Opacity	Utilize Method 9 to determine compliance with opacity limitations

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007C Incinerators and Waste Burners

- ___ Section C.1: General Description
- ___ Section C.2: Operating Information
- ___ Section C.3: Design Information
- ___ Section C.4: Notes, Comments, and Explanations

Additional Documentation
 ___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG
 ___ Submit a manufacturer's drawing illustrating dimensions and construction details of the unit.

Source Name: Alum Springs Convenience Center

KY EIS (AFS) #: 21- TBD

Permit #: TBD

Agency Interest (AI) ID: 43827

Date: 10/15/2025

Section C.1: General Description

Emission Unit #: 1

Emission Unit Name: Portable Air Curtain Incinerator

Manufacturer: Air Burners Inc

Model/Serial No.: Model S330

Proposed/Actual Date of Construction Commencement (MM/YYYY) : _____

Identify Type: Incinerator Waste Burner

Incinerator: Single Chamber Multiple Chamber

Waste Burner: Teepee Truncated Silo Other

Describe Emission Unit:
If Type is indicated as "other," describe.

The air curtain incinerator is a self-contained above ground Air Curtain Burner (FireBox or air curtain incinerator) with a refractory lined burn-container for
 Located in a municipal waste site, it will be used to dispose of wood debris from various agencies and residents throughout Boyle County.

List Applicable Regulations:

401 KAR 59:010 - New Process Operations; 401 KAR 63:010 – Fugitive Emissions; 401 KAR 63:020 – Potential Hazardous Material or Toxic Substance; 40 CFR 60, Subpart CCCC- Standards of Performance for Commercial and Industrial Solid Waste Incineration Units; 40 CFR 63, Subpart ZZZZ - NESHAP for Stationary RICE

Indicate if applicable: Stack Test Siting Requirements Operator Training

Indicate if have been completed: Stack Test Siting Requirements Operator Training

Section C.2: Operating InformationSCC Code: 5-02-001-03SCC Units: tons solid waste burnedDesign Capacity of Waste Burned: 26,000 lbs/hr
104 tons/day

Type of Waste Burned: (%)

100
Municipal Industrial Hazardous Medical OtherCharging Rate: 26,000 lbs/hr
40 tons/day

Description of Waste Burned:

Section C.3: Design Information

Combustion Air		Type of Incinerator	
Draft:	<input type="checkbox"/> Natural <input checked="" type="checkbox"/> Forced <input type="checkbox"/> Induced	<input type="checkbox"/> Mass Burn Waterfall	<input type="checkbox"/> Refuse Derived Fuel Spreader Stoker
Air Distribution:	<input checked="" type="checkbox"/> Overfire <input type="checkbox"/> Underfire <input type="checkbox"/> Secondary	<input type="checkbox"/> Mass Burn Rotary Waterfall	<input type="checkbox"/> Bubbling Fluidized Bed Incinerator
Air Flow	<u>Unknown</u> scfm	<input type="checkbox"/> Mass Burn Refractory	<input type="checkbox"/> Circulating Fluidized Bed Incinerator
Pressure:	<u>Unknown</u> in. H ₂ O	<input type="checkbox"/> Modular Staged Air	<input type="checkbox"/> RDF Co-fired Incinerator Air Curtain
		<input type="checkbox"/> Modular Excess Air	<input checked="" type="checkbox"/> Other Types Incinerator

Burner Specifications

Burner (Combustion Chamber)	Fuel	Rated Capacity Heat Input (MMBTU/hr)	Temperature		SCC Code	SCC Units
				(°C or °F)		
Primary Burner	U.S.D	N/A	1800	F	5-02-001-03	tons solid waste burned
Secondary Burner						
Other (Specify)						

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007N

Source Emissions Profile

- Section N.1: Emission Summary
- Section N.2: Stack Information
- Section N.3: Fugitive Information
- Section N.4: Notes, Comments, and Explanations

Additional Documentation

Complete DEP7007AI

Source Name: Alum Springs Convenience Center
KY EIS (AFS) #: 21- TBD
Permit #: TBD
Agency Interest (AI) ID: 43827
Date: 10/15/2025

N.1:

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity (SCC Units/hour)	Pollutant	Uncontrolled Emission Factor (lb/SCC Units)	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency (%)	Control Efficiency (%)	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
1	Portable Air Curtain Incinerator	N/A	N/A	None Known	N/A	N/A	13 tons/hr	CO	2.60 lb/ton	Table 3: Emissions Factors for Air Curtain Incinerator Burning Woody Biomass	0.00%	0.00%	33.80	33.80	148.04	148.04
								NOx	1.00 lb/ton	"	0.00%	0.00%	13.00	13.00	56.94	56.94
								PT	1.30 lb/ton	"	0.00%	0.00%	16.90	16.90	74.02	74.02
								PM10	1.30 lb/ton	"	0.00%	0.00%	16.90	16.90	74.02	74.02
								PM2.5	1.10 lb/ton	Reducing PM2.5 Emissions Through Technology	0.00%	0.00%	14.30	14.30	62.63	62.63
								SO2	1.00E-01 lb/ton	Table 3: Emissions Factors for Air Curtain Incinerator Burning Woody Biomass	0.00%	0.00%	1.30	1.30	5.69	5.69
								VOC	9.00E-01 lb/ton	"	0.00%	0.00%	11.70	11.70	51.25	51.25
								Carbon Dioxide	3616.00 lb/ton	Reducing PM2.5 Emissions Through Technology	0.00%	0.00%	47008.00	47008.00	205895.04	205895.04
								Methane	1.40 lb/ton	"	0.00%	0.00%	18.20	18.20	79.72	79.72
								Nitrous Oxide	1.65E-01 lb/ton	40 CFR 98, Table C-2	0.00%	0.00%	2.15	2.15	9.40	9.40
								Acenaphthene	8.19E-06 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.06E-04	1.06E-04	4.66E-04	4.66E-04
								Acenaphthylene	4.50E-05 lb/ton	AP-42 1.6-3	0.00%	0.00%	5.85E-04	5.85E-04	2.56E-03	2.56E-03
								Acetaldehyde	7.47E-03 lb/ton	AP-42 1.6-3	0.00%	0.00%	9.71E-02	9.71E-02	4.25E-01	4.25E-01
								Acetophenone	2.88E-08 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.74E-07	3.74E-07	1.64E-06	1.64E-06
								Acrolein	1.25E-02 lb/ton	Montrose Test Report	0.00%	0.00%	1.63E-01	1.63E-01	7.12E-01	7.12E-01
								Anthracene	2.70E-05 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.51E-04	3.51E-04	1.54E-03	1.54E-03
								Benzene	3.78E-02 lb/ton	AP-42 1.6-3	0.00%	0.00%	4.91E-01	4.91E-01	2.15	2.15
								Benzo[A]Anthracene	5.85E-07 lb/ton	AP-42 1.6-3	0.00%	0.00%	7.61E-06	7.61E-06	3.33E-05	3.33E-05

								Benzo[A]Pyrene	2.34E-05 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.04E-04	3.04E-04	1.33E-03	1.33E-03
								Benzo[B]Fluoranthene	9.00E-07 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.17E-05	1.17E-05	5.12E-05	5.12E-05
								Benzo[G,H,I]Perylene	8.37E-07 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.09E-05	1.09E-05	4.77E-05	4.77E-05
								Benzo[K]Fluoranthene	3.24E-07 lb/ton	AP-42 1.6-3	0.00%	0.00%	4.21E-06	4.21E-06	1.84E-05	1.84E-05
								Bis (2-Ethylhexyl) Phthalate	4.23E-07 lb/ton	AP-42 1.6-3	0.00%	0.00%	5.50E-06	5.50E-06	2.41E-05	2.41E-05
								Methyl Bromide	1.35E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.76E-03	1.76E-03	7.69E-03	7.69E-03
								Methyl Ethyl Ketone	4.86E-05 lb/ton	AP-42 1.6-3	0.00%	0.00%	6.32E-04	6.32E-04	2.77E-03	2.77E-03
								Carbon Tetrachloride	4.05E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	5.27E-03	5.27E-03	2.31E-02	2.31E-02
								Chlorine	7.11E-03 lb/ton	AP-42 1.6-3	0.00%	0.00%	9.24E-02	9.24E-02	4.05E-01	4.05E-01
								Chlorobenzene	2.97E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.86E-03	3.86E-03	1.69E-02	1.69E-02
								Chloroform	2.52E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.28E-03	3.28E-03	1.43E-02	1.43E-02
								Methyl Chloride	2.07E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	2.69E-03	2.69E-03	1.18E-02	1.18E-02
								Chrysene	3.42E-07 lb/ton	AP-42 1.6-3	0.00%	0.00%	4.45E-06	4.45E-06	1.95E-05	1.95E-05
								Dibenzo (A,H) Anthracene	8.19E-08 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.06E-06	1.06E-06	4.66E-06	4.66E-06
								1,2-Dibromoethane	4.95E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	6.44E-03	6.44E-03	2.82E-02	2.82E-02
								1,2-Dichloroethane	2.61E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.39E-03	3.39E-03	1.49E-02	1.49E-02
								Dichloromethane	2.61E-03 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.39E-02	3.39E-02	1.49E-01	1.49E-01
								1,2-Dichloropropane	2.97E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.86E-03	3.86E-03	1.69E-02	1.69E-02
								2,4-Dinitrophenol	1.62E-06 lb/ton	AP-42 1.6-3	0.00%	0.00%	2.11E-05	2.11E-05	9.22E-05	9.22E-05
								Ethyl Benzene	2.79E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.63E-03	3.63E-03	1.59E-02	1.59E-02
								Fluoranthene	1.44E-05 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.87E-04	1.87E-04	8.20E-04	8.20E-04
								Fluorene	3.06E-05 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.98E-04	3.98E-04	1.74E-03	1.74E-03
								Formaldehyde	3.96E-02 lb/ton	AP-42 1.6-3	0.00%	0.00%	5.15E-01	5.15E-01	2.25	2.25
								Hydrochloric Acid	1.71E-01 lb/ton	AP-42 1.6-3	0.00%	0.00%	2.22	2.22	9.74	9.74
								Indeno (1,2,3-Cd) Pyrene	7.83E-07 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.02E-05	1.02E-05	4.46E-05	4.46E-05
								2 Methylnaphthalene	1.44E-06 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.87E-05	1.87E-05	8.20E-05	8.20E-05
								Naphthalene	8.73E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.13E-02	1.13E-02	4.97E-02	4.97E-02
								4-Nitrophenol	9.90E-09 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.29E-07	1.29E-07	5.64E-07	5.64E-07
								Phenanthrene	6.30E-05 lb/ton	AP-42 1.6-3	0.00%	0.00%	8.19E-04	8.19E-04	3.59E-03	3.59E-03
								Phenol	4.59E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	5.97E-03	5.97E-03	2.61E-02	2.61E-02
								Propionaldehyde	5.49E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	7.14E-03	7.14E-03	3.13E-02	3.13E-02
								Pyrene	3.33E-05 lb/ton	AP-42 1.6-3	0.00%	0.00%	4.33E-04	4.33E-04	1.90E-03	1.90E-03
								Styrene	1.71E-02 lb/ton	AP-42 1.6-3	0.00%	0.00%	2.22E-01	2.22E-01	9.74E-01	9.74E-01
								2,3,7,8-Tetrachlorodibenzo-p-Dioxin	7.74E-11 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.01E-09	1.01E-09	4.41E-09	4.41E-09
								Toluene	8.28E-03 lb/ton	AP-42 1.6-3	0.00%	0.00%	1.08E-01	1.08E-01	4.71E-01	4.71E-01
								1,1,1-Trichloroethane	2.79E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	3.63E-03	3.63E-03	1.59E-02	1.59E-02
								2,4,6-Trichlorophenol	1.98E-07 lb/ton	AP-42 1.6-3	0.00%	0.00%	2.57E-06	2.57E-06	1.13E-05	1.13E-05
								Vinyl Chloride	1.62E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	2.11E-03	2.11E-03	9.22E-03	9.22E-03
								Xylenes (Total)	2.25E-04 lb/ton	AP-42 1.6-3	0.00%	0.00%	2.93E-03	2.93E-03	1.28E-02	1.28E-02
								Antimony, Total (as Sb)	7.11E-05 lb/ton	AP-42 1.6-4	0.00%	0.00%	9.24E-04	9.24E-04	4.05E-03	4.05E-03
								Arsenic (and Compounds)	1.98E-04 lb/ton	AP-42 1.6-4	0.00%	0.00%	2.57E-03	2.57E-03	1.13E-02	1.13E-02
								Beryllium Compounds	9.90E-06 lb/ton	AP-42 1.6-4	0.00%	0.00%	1.29E-04	1.29E-04	5.64E-04	5.64E-04
								Cadmium (and Compounds)	3.69E-05 lb/ton	AP-42 1.6-4	0.00%	0.00%	4.80E-04	4.80E-04	2.10E-03	2.10E-03
								Cobalt (and Compounds)	5.85E-05 lb/ton	AP-42 1.6-4	0.00%	0.00%	7.61E-04	7.61E-04	3.33E-03	3.33E-03
								Manganese and Manganese Compounds	1.44E-02 lb/ton	AP-42 1.6-4	0.00%	0.00%	1.87E-01	1.87E-01	8.20E-01	8.20E-01

								Mercury (and Compounds)	3.15E-05 lb/ton	AP-42 1.6-4	0.00%	0.00%	4.10E-04	4.10E-04	1.79E-03	1.79E-03
								Nickel (and Compounds)	2.97E-04 lb/ton	AP-42 1.6-4	0.00%	0.00%	3.86E-03	3.86E-03	1.69E-02	1.69E-02
								Phosphorus (as P), Total	2.43E-04 lb/ton	AP-42 1.6-4	0.00%	0.00%	3.16E-03	3.16E-03	1.38E-02	1.38E-02
								Selenium (and Compounds)	2.52E-05 lb/ton	AP-42 1.6-4	0.00%	0.00%	3.28E-04	3.28E-04	1.43E-03	1.43E-03
2	74 HP Diesel Engine	N/A	N/A	None Known	N/A	1	3.77E-03 ga1000/hr	CO	170.92 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	6.44E-01	6.44E-01	2.82	2.82
								NOx	13.67 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	5.16E-02	5.16E-02	2.26E-01	2.26E-01
								PT	6.84E-01 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	2.58E-03	2.58E-03	1.13E-02	1.13E-02
								PM10	6.84E-01 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	2.58E-03	2.58E-03	1.13E-02	1.13E-02
								PM2.5	6.84E-01 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	2.58E-03	2.58E-03	1.13E-02	1.13E-02
								SO2	39.70 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	1.50E-01	1.50E-01	6.56E-01	6.56E-01
								VOC	6.49 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	2.45E-02	2.45E-02	1.07E-01	1.07E-01
								Carbon Dioxide	22500.00 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	84.84	84.84	371.59	371.59
								Methane	9.06E-01 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	3.42E-03	3.42E-03	1.50E-02	1.50E-02
								Nitrous Oxide	1.81E-01 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	6.82E-04	6.82E-04	2.99E-03	2.99E-03
								1,3-Butadiene	5.36E-03 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	2.02E-05	2.02E-05	8.85E-05	8.85E-05
								Acenaphthene	1.95E-04 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	7.33E-07	7.33E-07	3.21E-06	3.21E-06
								Acenaphthylene	6.93E-04 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	2.61E-06	2.61E-06	1.14E-05	1.14E-05
								Acetaldehyde	1.05E-01 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	3.96E-04	3.96E-04	1.74E-03	1.74E-03
								Acrolein	1.27E-02 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	4.78E-05	4.78E-05	2.09E-04	2.09E-04
								Anthracene	2.56E-04 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	9.66E-07	9.66E-07	4.23E-06	4.23E-06
								Benzene	1.28E-01 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	4.82E-04	4.82E-04	2.11E-03	2.11E-03
								Benzo[A]Anthracene	2.30E-04 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	8.68E-07	8.68E-07	3.80E-06	3.80E-06
								Benzo[A]Pyrene	2.58E-05 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	9.71E-08	9.71E-08	4.25E-07	4.25E-07
								Benzo[B]Fluoranthene	1.36E-05 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	5.12E-08	5.12E-08	2.24E-07	2.24E-07
								Benzo[G,H,I]Perylene	6.70E-05 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	2.53E-07	2.53E-07	1.11E-06	1.11E-06
								Benzo[K]Fluoranthene	2.12E-05 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	8.01E-08	8.01E-08	3.51E-07	3.51E-07
								Chrysene	4.84E-05 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	1.82E-07	1.82E-07	7.99E-07	7.99E-07
								Dibenzo (A,H) Anthracene	7.99E-05 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	3.01E-07	3.01E-07	1.32E-06	1.32E-06
								Fluoranthene	1.04E-03 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	3.93E-06	3.93E-06	1.72E-05	1.72E-05
								Fluorene	4.00E-03 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	1.51E-05	1.51E-05	6.61E-05	6.61E-05
								Formaldehyde	1.62E-01 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	6.10E-04	6.10E-04	2.67E-03	2.67E-03
								Indeno (1,2,3-Cd) Pyrene	5.14E-05 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	1.94E-07	1.94E-07	8.49E-07	8.49E-07
								Naphthalene	1.16E-02 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	4.38E-05	4.38E-05	1.92E-04	1.92E-04
								Phenanthrene	4.03E-03 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	1.52E-05	1.52E-05	6.65E-05	6.65E-05
								Pyrene	6.55E-04 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	2.47E-06	2.47E-06	1.08E-05	1.08E-05
								Toluene	5.60E-02 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	2.11E-04	2.11E-04	9.25E-04	9.25E-04
								Xylenes (Total)	3.91E-02 lb/gal1000	AP-42 3.3-1	0.00%	0.00%	1.47E-04	1.47E-04	6.45E-04	6.45E-04

Section N.2: Stack Information

UTM Zone:

Stack ID	Identify all Emission Units (with Process ID) and Control Devices that Feed to Stack	Stack Physical Data			Stack UTM Coordinates		Stack Gas Stream Data		
		Equivalent Diameter <i>(ft)</i>	Height <i>(ft)</i>	Base Elevation <i>(ft)</i>	Northing <i>(m)</i>	Easting <i>(m)</i>	Flowrate <i>(acfm)</i>	Temperature <i>(°F)</i>	Exit Velocity <i>(ft/sec)</i>
1	EP02	Unknown	Unknown	984	4163205.74	691536.68	Unknown	Unknown	Unknown

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007EE

Internal Combustion Engines

- Section EE.1: General Information
- Section EE.2: Operating Information
- Section EE.3: Design Information
- Section EE.4: Fuel Information
- Section EE.5: Emission Factor Information
- Section EE.6: Notes, Comments, and Explanations

Additional Documentation

 Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG

 Attach EPA certification of the engine

Source Name: Alum Springs Convenience Center

KY EIS (AFS) #: 21- TBD

Permit #: TBD

Agency Interest (AI) ID: 43827

Date: 10/15/2025

Section EE.1: General Information

Emission Unit #	Emission Unit Name	Control Device ID	Stack ID	Manufacturer	Model Number	Model Year	Date of Manufacture	Proposed/Actual Date of Construction Commencement (MM/YYYY)	Date Reconstructed/Modified	List Applicable Regulations
EP02	74 HP Diesel Engine	N/A	1	HATZ	4H50TIC	Unknown	Unknown	Existing	N/A	401 KAR 63:020
										40 CFR 60, Subpart ZZZZ

Section EE.2: Operating Information					
Emission Unit #	Engine Purpose (Identify if Non-Emergency, Emergency, Fire/Water Pump, Black-start engine for combustion turbine, Engine Testing)	Hours Operated	Is this engine a rental? <i>(Yes/No)</i>	Rental Time Period <i>(hrs)</i>	Alternate Operating Scenarios (Describe any operating scenarios in which the engine may be used in a different configuration)
2	Non Emergency	TBD	No	N/A	

Section EE.3: Design Information

Emission Unit #	Engine Type (Identify all that apply: Commercial, Institutional, Stationary, Non-Road)	Ignition Type (Identify if either Compression or Spark Ignition)	Engine Family (Identify all that apply: 2-stroke, 4-stroke, Rich Burn, Lean Burn)	Maximum Engine Power (<i>bhp</i>)	Maximum Engine Speed (<i>rpm</i>)	Total Displacement (<i>L</i>)	Number of Cylinders
2	Non-road	Compression	4 Stroke	75	3000	1.952	4

Section EE.5: Emission Factor Information

Emission factors expressed here are based on the potential to emit.

Emission Unit #	Fuel	Pollutant	Emission Factor	Emission Factor Units	Source of Emission Factor
EP02	Diesel	CO	170.92	lb/gal1000	AP-42 3.3-1
		NOx	13.67	lb/gal1000	AP-42 3.3-1
		PT	6.84E-01	lb/gal1000	AP-42 3.3-1
		PM10	6.84E-01	lb/gal1000	AP-42 3.3-1
		PM2.5	6.84E-01	lb/gal1000	AP-42 3.3-1
		SO2	39.7	lb/gal1000	AP-42 3.3-1
		VOC	6.49	lb/gal1000	AP-42 3.3-1
		Carbon Dioxide	22500.00	lb/gal1000	AP-42 3.3-1
		Methane	9.06E-01	lb/gal1000	AP-42 3.3-1
		Nitrous Oxide	1.81E-01	lb/gal1000	AP-42 3.3-1

Emission Unit #	Fuel	Pollutant	Emission Factor	Emission Factor Units	Source of Emission Factor
		1,3-Butadiene	5.36E-03	lb/gal1000	AP-42 3.3-1
		Acenaphthene	1.95E-04	lb/gal1000	AP-42 3.3-1
		Acenaphthylene	6.93E-04	lb/gal1000	AP-42 3.3-1
		Acetaldehyde	1.05E-01	lb/gal1000	AP-42 3.3-1
		Acrolein	1.27E-02	lb/gal1000	AP-42 3.3-1
		Anthracene	2.56E-04	lb/gal1000	AP-42 3.3-1
		Benzene	1.28E-01	lb/gal1000	AP-42 3.3-1
		Benzo[A]Anthracene	2.30E-04	lb/gal1000	AP-42 3.3-1
		Benzo[A]Pyrene	2.58E-05	lb/gal1000	AP-42 3.3-1
		Benzo[B]Fluoranthene	1.36E-05	lb/gal1000	AP-42 3.3-1
		Benzo[G,H,I]Perylene	6.70E-05	lb/gal1000	AP-42 3.3-1

Emission Unit #	Fuel	Pollutant	Emission Factor	Emission Factor Units	Source of Emission Factor
		Benzo[K]Fluoranthene	2.12E-05	lb/gal1000	AP-42 3.3-1
		Chrysene	4.84E-05	lb/gal1000	AP-42 3.3-1
		Dibenzo (A,H) Anthracene	7.99E-05	lb/gal1000	AP-42 3.3-1
		Fluoranthene	1.04E-03	lb/gal1000	AP-42 3.3-1
		Fluorene	4.00E-03	lb/gal1000	AP-42 3.3-1
		Formaldehyde	1.62E-01	lb/gal1000	AP-42 3.3-1
		Indeno (1,2,3-Cd) Pyrene	5.14E-05	lb/gal1000	AP-42 3.3-1
		Naphthalene	1.16E-02	lb/gal1000	AP-42 3.3-1
		Phenanthrene	4.03E-03	lb/gal1000	AP-42 3.3-1
		Pyrene	6.55E-04	lb/gal1000	AP-42 3.3-1
		Toluene	5.60E-02	lb/gal1000	AP-42 3.3-1

Emission Unit #	Fuel	Pollutant	Emission Factor	Emission Factor Units	Source of Emission Factor
		Xylenes (Total)	3.91E-02	lb/gal1000	AP-42 3.3-1

Name: Alum Springs Convenience Center				AI # 43827						Uncontrolled		Controlled	
Identification	Description	Material	Throughput	Units	Hours	Pollutant EF		Units	Overall	lb/hr	TPY	lb/hr	TPY
Name Air Curtain Incinerator													
EIS Point	EP01	Wood Processed	13.00	tons/hr	8760	CO	2.60	lb/ton	0.00%	33.80	148.04	33.80	148.04
SCC	5-02-001-03					NOx	1.00	lb/ton	0.00%	13.00	56.94	13.00	56.94
Reg	401 KAR 59:020; 401 KAR 63:020; 401 KAR 60:005, Section 2(2)(cccc); 40 CFR 60.2880 through 60.2977, Tables 1-4 (Subpart EEEE); 40 CFR 63, Subpart ZZZZ					PT	1.30	lb/ton	0.00%	16.90	74.02	16.90	74.02
Stack #	1	Max Capacity:	13.00	tons/hr		PM10	1.30	lb/ton	0.00%	16.90	74.02	16.90	74.02
Height	Unknown					PM2.5	1.10	lb/ton	0.00%	14.30	62.63	14.30	62.63
Diameter	Unknown					SO2	1.00E-01	lb/ton	0.00%	1.30	5.69	1.30	5.69
Flowrate	Unknown					VOC	9.00E-01	lb/ton	0.00%	11.70	51.25	11.70	51.25
Temp	Unknown					Carbon Dioxide	3616	lb/ton	0.00%	47008.00	205895.04	47008.00	205895.04
Date	9/9/2025					Methane	1.40	lb/ton	0.00%	18.20	79.72	18.20	79.72
						Nitrous Oxide	1.65E-01	lb/ton	0.00%	2.15	9.40	2.15	9.40
						Acenaphthene	8.19E-06	lb/ton	0.00%	1.06E-04	4.66E-04	1.06E-04	4.66E-04
						Acenaphthylene	4.50E-05	lb/ton	0.00%	5.85E-04	2.56E-03	5.85E-04	2.56E-03
						Acetaldehyde	7.47E-03	lb/ton	0.00%	9.71E-02	4.25E-01	9.71E-02	4.25E-01
Control	None Known					Acetophenone	2.88E-08	lb/ton	0.00%	3.74E-07	1.64E-06	3.74E-07	1.64E-06
EF Reference	AP-42 1.6-3;AP-42 1.6-4					Acrolein	1.25E-02	lb/ton	0.00%	1.63E-01	7.12E-01	1.63E-01	7.12E-01
	Clerico, B. and Villegas, E. (2017). Air Curtain Incinerator Emissions Factors Determinations. Table 3: Emissions Factors for Air Curtain Incinerator Burning Woody Biomass					Anthracene	2.70E-05	lb/ton	0.00%	3.51E-04	1.54E-03	3.51E-04	1.54E-03
	Susott, R. A., Babbit, R. Lincoln, E., Hao, W. M. (2002). Reducing PM2.5 Emissions Through Technology. USDA Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory, Missoula, MT. https://airburners.com/wp-40 CFR 98, Table C-2					Benzene	3.78E-02	lb/ton	0.00%	4.91E-01	2.15E+00	4.91E-01	2.15E+00
	Pulaski Co (AI 167975)					Benzo[A]Anthracene	5.85E-07	lb/ton	0.00%	7.61E-06	3.33E-05	7.61E-06	3.33E-05
						Benzo[A]Pyrene	2.34E-05	lb/ton	0.00%	3.04E-04	1.33E-03	3.04E-04	1.33E-03
						Benzo[B]Fluoranthene	9.00E-07	lb/ton	0.00%	1.17E-05	5.12E-05	1.17E-05	5.12E-05
						Benzo[G,H,I]Perylene	8.37E-07	lb/ton	0.00%	1.09E-05	4.77E-05	1.09E-05	4.77E-05
						Benzo[K]Fluoranthene	3.24E-07	lb/ton	0.00%	4.21E-06	1.84E-05	4.21E-06	1.84E-05
						Bis (2-Ethylhexyl) Phthalate	4.23E-07	lb/ton	0.00%	5.50E-06	2.41E-05	5.50E-06	2.41E-05
						Methyl Bromide	1.35E-04	lb/ton	0.00%	1.76E-03	7.69E-03	1.76E-03	7.69E-03
						Methyl Ethyl Ketone	4.86E-05	lb/ton	0.00%	6.32E-04	2.77E-03	6.32E-04	2.77E-03
						Carbon Tetrachloride	4.05E-04	lb/ton	0.00%	5.27E-03	2.31E-02	5.27E-03	2.31E-02
						Chlorine	7.11E-03	lb/ton	0.00%	9.24E-02	4.05E-01	9.24E-02	4.05E-01
						Chlorobenzene	2.97E-04	lb/ton	0.00%	3.86E-03	1.69E-02	3.86E-03	1.69E-02
Notes	Airburners, Model #S330					Chloroform	2.52E-04	lb/ton	0.00%	3.28E-03	1.43E-02	3.28E-03	1.43E-02
						Methyl Chloride	2.07E-04	lb/ton	0.00%	2.69E-03	1.18E-02	2.69E-03	1.18E-02
						Chrysene	3.42E-07	lb/ton	0.00%	4.45E-06	1.95E-05	4.45E-06	1.95E-05
						Dibenzo (A,H) Anthracene	8.19E-08	lb/ton	0.00%	1.06E-06	4.66E-06	1.06E-06	4.66E-06
						1,2-Dibromoethane	4.95E-04	lb/ton	0.00%	6.44E-03	2.82E-02	6.44E-03	2.82E-02
						1,2-Dichloroethane	2.61E-04	lb/ton	0.00%	3.39E-03	1.49E-02	3.39E-03	1.49E-02
						Dichloromethane	2.61E-03	lb/ton	0.00%	3.39E-02	1.49E-01	3.39E-02	1.49E-01
						1,2-Dichloropropane	2.97E-04	lb/ton	0.00%	3.86E-03	1.69E-02	3.86E-03	1.69E-02
						2,4-Dinitrophenol	1.62E-06	lb/ton	0.00%	2.11E-05	9.22E-05	2.11E-05	9.22E-05
						Ethyl Benzene	2.79E-04	lb/ton	0.00%	3.63E-03	1.59E-02	3.63E-03	1.59E-02
						Fluoranthene	1.44E-05	lb/ton	0.00%	1.87E-04	8.20E-04	1.87E-04	8.20E-04
						Fluorene	3.06E-05	lb/ton	0.00%	3.98E-04	1.74E-03	3.98E-04	1.74E-03
						Formaldehyde	3.96E-02	lb/ton	0.00%	5.15E-01	2.25	5.15E-01	2.25
						Hydrochloric Acid	1.71E-01	lb/ton	0.00%	2.22	9.74	2.22	9.74
						Indeno (1,2,3-Cd) Pyrene	7.83E-07	lb/ton	0.00%	1.02E-05	4.46E-05	1.02E-05	4.46E-05
						2 Methylanthralene	1.44E-06	lb/ton	0.00%	1.87E-05	8.20E-05	1.87E-05	8.20E-05
						Naphthalene	8.73E-04	lb/ton	0.00%	1.13E-02	4.97E-02	1.13E-02	4.97E-02
						4-Nitrophenol	9.90E-09	lb/ton	0.00%	1.29E-07	5.64E-07	1.29E-07	5.64E-07
						Phenanthrene	6.30E-05	lb/ton	0.00%	8.19E-04	3.59E-03	8.19E-04	3.59E-03
						Phenol	4.59E-04	lb/ton	0.00%	5.97E-03	2.61E-02	5.97E-03	2.61E-02
						Propionaldehyde	5.49E-04	lb/ton	0.00%	7.14E-03	3.13E-02	7.14E-03	3.13E-02
						Pyrene	3.33E-05	lb/ton	0.00%	4.33E-04	1.90E-03	4.33E-04	1.90E-03
						Styrene	1.71E-02	lb/ton	0.00%	2.22E-01	9.74E-01	2.22E-01	9.74E-01
						2,3,7,8-Tetrachlorodibenzo-p-Dioxin	7.74E-11	lb/ton	0.00%	1.01E-09	4.41E-09	1.01E-09	4.41E-09
						Toluene	8.28E-03	lb/ton	0.00%	1.08E-01	4.71E-01	1.08E-01	4.71E-01
						1,1,1-Trichloroethane	2.79E-04	lb/ton	0.00%	3.63E-03	1.59E-02	3.63E-03	1.59E-02
						2,4,6-Trichlorophenol	1.98E-07	lb/ton	0.00%	2.57E-06	1.13E-05	2.57E-06	1.13E-05
						Vinyl Chloride	1.62E-04	lb/ton	0.00%	2.11E-03	9.22E-03	2.11E-03	9.22E-03
						Xylenes (Total)	2.25E-04	lb/ton	0.00%	2.93E-03	1.28E-02	2.93E-03	1.28E-02
						Antimony, Total (as Sb)	7.11E-05	lb/ton	0.00%	9.24E-04	4.05E-03	9.24E-04	4.05E-03
						Arsenic (and Compounds)	1.98E-04	lb/ton	0.00%	2.57E-03	1.13E-02	2.57E-03	1.13E-02
						Beryllium Compounds	9.90E-06	lb/ton	0.00%	1.29E-04	5.64E-04	1.29E-04	5.64E-04
						Cadmium (and Compounds)	3.69E-05	lb/ton	0.00%	4.80E-04	2.10E-03	4.80E-04	2.10E-03
						Cobalt (and Compounds)	5.85E-05	lb/ton	0.00%	7.61E-04	3.33E-03	7.61E-04	3.33E-03
						Manganese and Manganese Compounds	1.44E-02	lb/ton	0.00%	1.87E-01	8.20E-01	1.87E-01	8.20E-01
						Mercury (and Compounds)	3.15E-05	lb/ton	0.00%	4.10E-04	1.79E-03	4.10E-04	1.79E-03
						Nickel (and Compounds)	2.97E-04	lb/ton	0.00%	3.86E-03	1.69E-02	3.86E-03	1.69E-02
						Phosphorus (as P), Total	2.43E-04	lb/ton	0.00%	3.16E-03	1.38E-02	3.16E-03	1.38E-02
						Selenium (and Compounds)	2.52E-05	lb/ton	0.00%	3.28E-04	1.43E-03	3.28E-04	1.43E-03
Name HP Diesel Engine													
EIS Point	EP02		3.77E-03	gal ₁₀₀₀ /hr	8760	CO	170.92	lb/gal ₁₀₀₀	0.00%	6.44E-01	2.82	6.44E-01	2.82
SCC	2-03-001-01					NOx	13.67	lb/gal ₁₀₀₀	0.00%	5.16E-02	2.26E-01	5.16E-02	2.26E-01
Reg	401 KAR 63:020;40 CFR 60, Subpart ZZZZ					PT	6.84E-01	lb/gal ₁₀₀₀	0.00%	2.58E-03	1.13E-02	2.58E-03	1.13E-02
Stack #	1		74.00	HP		PM10	6.84E-01	lb/gal ₁₀₀₀	0.00%	2.58E-03	1.13E-02	2.58E-03	1.13E-02
Height	Unknown		7000.00	Btu/HP-hr		PM2.5	6.84E-01	lb/gal ₁₀₀₀	0.00%	2.58E-03	1.13E-02	2.58E-03	1.13E-02
Diameter	Unknown		518000.00	Btu/hr		SO2	39.70	lb/gal ₁₀₀₀	0.00%	1.50E-01	6.56E-01	1.50E-01	6.56E-01
Flowrate	Unknown		0.52	MMBtu/hr		VOC	6.49	lb/gal ₁₀₀₀	0.00%	2.45E-02	1.07E-01	2.45E-02	1.07E-01
Temp	Unknown					Carbon Dioxide	22500.00	lb/gal ₁₀₀₀	0.00%	84.84	371.59	84.84	371.59
Date	9/9/2025					Methane	9.06E-01	lb/gal ₁₀₀₀	0.00%	3.42E-03	1.50E-02	3.42E-03	1.50E-02
Control	None Known					Nitrous Oxide	1.81E-01	lb/gal ₁₀₀₀	0.00%	6.82E-04	2.99E-03	6.82E-04	2.99E-03
EF Reference	AP-42 3.3-1					1,3-Butadiene	5.36E-03	lb/gal ₁₀₀₀	0.00%	2.02E-05	8.85E-05	2.02E-05	8.85E-05
		Conversion Factor	137.38	btu/gal ₁₀₀₀		Acenaphthene	1.95E-04	lb/gal ₁₀₀₀	0.00%	7.33E-07	3.21E-06	7.33E-07	3.21E-06
						Acenaphthylene	6.93E-04	lb/gal ₁₀₀₀	0.00%	2.61E-06	1.14E-05	2.61E-06	1.14E-05

Acetaldehyde	1.05E-01	lb/gal1000	0.00%	3.96E-04	1.74E-03	3.96E-04	1.74E-03
Acrolein	1.27E-02	lb/gal1000	0.00%	4.78E-05	2.09E-04	4.78E-05	2.09E-04
Anthracene	2.56E-04	lb/gal1000	0.00%	9.66E-07	4.23E-06	9.66E-07	4.23E-06
Benzene	1.28E-01	lb/gal1000	0.00%	4.82E-04	2.11E-03	4.82E-04	2.11E-03
Benzo[A]Anthracene	2.30E-04	lb/gal1000	0.00%	8.68E-07	3.80E-06	8.68E-07	3.80E-06
Benzo[A]Pyrene	2.58E-05	lb/gal1000	0.00%	9.71E-08	4.25E-07	9.71E-08	4.25E-07
Benzo[B]Fluoranthene	1.36E-05	lb/gal1000	0.00%	5.12E-08	2.24E-07	5.12E-08	2.24E-07
Benzo[G,H,I]Perylene	6.70E-05	lb/gal1000	0.00%	2.53E-07	1.11E-06	2.53E-07	1.11E-06
Benzo[K]Fluoranthene	2.12E-05	lb/gal1000	0.00%	8.01E-08	3.51E-07	8.01E-08	3.51E-07
Chrysene	4.84E-05	lb/gal1000	0.00%	1.82E-07	7.99E-07	1.82E-07	7.99E-07
Dibenzo (A,H) Anthracene	7.99E-05	lb/gal1000	0.00%	3.01E-07	1.32E-06	3.01E-07	1.32E-06
Fluoranthene	1.04E-03	lb/gal1000	0.00%	3.93E-06	1.72E-05	3.93E-06	1.72E-05
Fluorene	4.00E-03	lb/gal1000	0.00%	1.51E-05	6.61E-05	1.51E-05	6.61E-05
Formaldehyde	1.62E-01	lb/gal1000	0.00%	6.10E-04	2.67E-03	6.10E-04	2.67E-03
Indeno (1,2,3-Cd) Pyrene	5.14E-05	lb/gal1000	0.00%	1.94E-07	8.49E-07	1.94E-07	8.49E-07
Naphthalene	1.16E-02	lb/gal1000	0.00%	4.38E-05	1.92E-04	4.38E-05	1.92E-04
Phenanthrene	4.03E-03	lb/gal1000	0.00%	1.52E-05	6.65E-05	1.52E-05	6.65E-05
Pyrene	6.55E-04	lb/gal1000	0.00%	2.47E-06	1.08E-05	2.47E-06	1.08E-05
Toluene	5.60E-02	lb/gal1000	0.00%	2.11E-04	9.25E-04	2.11E-04	9.25E-04
Xylenes (Total)	3.91E-02	lb/gal1000	0.00%	1.47E-04	6.45E-04	1.47E-04	6.45E-04

Facility-wide Emissions

Total Emissions		
Pollutant	Uncontrolled TPY	Controlled TPY
CO	150.87	150.87
NOx	57.17	57.17
PT	74.03	74.03
PM10	74.03	74.03
PM2.5	62.65	62.65
SO2	6.35	6.35
VOC	51.35	51.35
Carbon Dioxide	206266.63	206266.63
Methane	79.73	79.73
Nitrous Oxide	9.40	9.40
Acenaphthene	4.70E-04	4.70E-04
Acenaphthylene	2.57E-03	2.57E-03
Acetaldehyde	4.27E-01	4.27E-01
Acetophenone	1.64E-06	1.64E-06
Acrolein	7.12E-01	7.12E-01
Anthracene	1.54E-03	1.54E-03
Benzene	2.15	2.15
Benzo[A]Anthracene	3.71E-05	3.71E-05
Benzo[A]Pyrene	1.33E-03	1.33E-03
Benzo[B]Fluoranthene	5.15E-05	5.15E-05
Benzo[G,H,I]Perylene	4.88E-05	4.88E-05
Benzo[K]Fluoranthene	1.88E-05	1.88E-05
Bis (2-Ethylhexyl) Phthalate	2.41E-05	2.41E-05
Methyl Bromide	7.69E-03	7.69E-03
Methyl Ethyl Ketone	2.77E-03	2.77E-03
Carbon Tetrachloride	2.31E-02	2.31E-02
Chlorine	4.05E-01	4.05E-01
Chlorobenzene	1.69E-02	1.69E-02
Chloroform	1.43E-02	1.43E-02
Methyl Chloride	1.18E-02	1.18E-02
Chrysene	2.03E-05	2.03E-05
Dibenzo (A,H) Anthracene	5.98E-06	5.98E-06
1,2-Dibromoethane	2.82E-02	2.82E-02
1,2-Dichloroethane	1.49E-02	1.49E-02
Dichloromethane	1.49E-01	1.49E-01
1,2-Dichloropropane	1.69E-02	1.69E-02
2,4-Dinitrophenol	9.22E-05	9.22E-05
Ethyl Benzene	1.59E-02	1.59E-02
Fluoranthene	8.37E-04	8.37E-04
Fluorene	1.81E-03	1.81E-03
Formaldehyde	2.26E+00	2.26
Hydrochloric Acid	9.74	9.74
Indeno (1,2,3-Cd) Pyrene	4.54E-05	4.54E-05
2 Methylnaphthalene	8.20E-05	8.20E-05
Naphthalene	4.99E-02	4.99E-02
4-Nitrophenol	5.64E-07	5.64E-07
Phenanthrene	3.65E-03	3.65E-03
Phenol	2.61E-02	2.61E-02
Propionaldehyde	3.13E-02	3.13E-02
Pyrene	1.91E-03	1.91E-03
Styrene	9.74E-01	9.74E-01
2,3,7,8-Tetrachlorodibenzo-p-Dioxin	4.41E-09	4.41E-09
Toluene	4.72E-01	4.72E-01
1,1,1-Trichloroethane	1.59E-02	1.59E-02
2,4,6-Trichlorophenol	1.13E-05	1.13E-05
Vinyl Chloride	9.22E-03	9.22E-03
Xylenes (Total)	1.35E-02	1.35E-02
Antimony, Total (as Sb)	4.05E-03	4.05E-03
Arsenic (and Compounds)	1.13E-02	1.13E-02
Beryllium Compounds	5.64E-04	5.64E-04
Cadmium (and Compounds)	2.10E-03	2.10E-03
Cobalt (and Compounds)	3.33E-03	3.33E-03
Manganese and Manganese Compounds	8.20E-01	8.20E-01
Mercury (and Compounds)	1.79E-03	1.79E-03
Nickel (and Compounds)	1.69E-02	1.69E-02
Phosphorus (as P), Total	1.38E-02	1.38E-02
Selenium (and Compounds)	1.43E-03	1.43E-03
Total HAPS	18.48	18.48

Facility-wide Emissions

Non Fugitive Emissions		
Pollutant	Uncontrolled TPY	Controlled TPY
CO	150.87	150.87
NOx	57.17	57.17
PT	74.03	74.03
PM10	74.03	74.03
PM2.5	62.65	62.65
SO2	6.35	6.35
VOC	51.35	51.35
Carbon Dioxide	206266.63	206266.63
Methane	79.73	79.73
Nitrous Oxide	9.40	9.40
Acenaphthene	4.70E-04	4.70E-04
Acenaphthylene	2.57E-03	2.57E-03
Acetaldehyde	4.27E-01	4.27E-01
Acetophenone	1.64E-06	1.64E-06
Acrolein	7.12E-01	7.12E-01
Anthracene	1.54E-03	1.54E-03
Benzene	2.15	2.15
Benzo[A]Anthracene	3.71E-05	3.71E-05
Benzo[A]Pyrene	1.33E-03	1.33E-03
Benzo[B]Fluoranthene	5.15E-05	5.15E-05
Benzo[G,H,I]Perylene	4.88E-05	4.88E-05
Benzo[K]Fluoranthene	1.88E-05	1.88E-05
Bis (2-Ethylhexyl) Phthalate	2.41E-05	2.41E-05
Methyl Bromide	7.69E-03	7.69E-03
Methyl Ethyl Ketone	2.77E-03	2.77E-03
Carbon Tetrachloride	2.31E-02	2.31E-02
Chlorine	4.05E-01	4.05E-01
Chlorobenzene	1.69E-02	1.69E-02
Chloroform	1.43E-02	1.43E-02
Methyl Chloride	1.18E-02	1.18E-02
Chrysene	2.03E-05	2.03E-05
Dibenzo (A,H) Anthracene	5.98E-06	5.98E-06
1,2-Dibromoethane	2.82E-02	2.82E-02
1,2-Dichloroethane	1.49E-02	1.49E-02
Dichloromethane	1.49E-01	1.49E-01
1,2-Dichloropropane	1.69E-02	1.69E-02
2,4-Dinitrophenol	9.22E-05	9.22E-05
Ethyl Benzene	1.59E-02	1.59E-02
Fluoranthene	8.37E-04	8.37E-04
Fluorene	1.81E-03	1.81E-03
Formaldehyde	2.26E+00	2.26
Hydrochloric Acid	9.74E+00	9.74
Indeno (1,2,3-Cd) Pyrene	4.54E-05	4.54E-05
2 Methylnaphthalene	8.20E-05	8.20E-05
Naphthalene	4.99E-02	0.05
4-Nitrophenol	5.64E-07	5.64E-07
Phenanthrene	3.65E-03	3.65E-03
Phenol	2.61E-02	2.61E-02
Propionaldehyde	3.13E-02	3.13E-02
Pyrene	1.91E-03	1.91E-03
Styrene	9.74E-01	9.74E-01
2,3,7,8-Tetrachlorodibenzo-p-Dioxin	4.41E-09	4.41E-09
Toluene	4.72E-01	4.72E-01
1,1,1-Trichloroethane	1.59E-02	1.59E-02
2,4,6-Trichlorophenol	1.13E-05	1.13E-05
Vinyl Chloride	9.22E-03	9.22E-03
Xylenes (Total)	1.35E-02	1.35E-02
Antimony, Total (as Sb)	4.05E-03	4.05E-03
Arsenic (and Compounds)	1.13E-02	1.13E-02
Beryllium Compounds	5.64E-04	5.64E-04
Cadmium (and Compounds)	2.10E-03	2.10E-03
Cobalt (and Compounds)	3.33E-03	3.33E-03
Manganese and Manganese Compounds	8.20E-01	8.20E-01
Mercury (and Compounds)	1.79E-03	1.79E-03
Nickel (and Compounds)	1.69E-02	1.69E-02
Phosphorus (as P), Total	1.38E-02	1.38E-02
Selenium (and Compounds)	1.43E-03	1.43E-03
Total HAPS	18.48	18.48

84°50'05"W



Junction City Conve



84°50'W

84°49'55"W

Junction City Convenier

37°35'45"N

37°35'50"N

84°49'50"W

Handwritten notes:
Bakery
X-X-X-X-X-X
A/C
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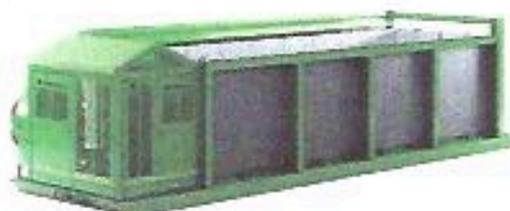
84°49'45"W

100 m

84°49'40"W



FIREBOX SPECIFICATIONS



MADE IN THE USA

General: A self-contained above ground Air Curtain Burner (FireBox or air curtain incinerator) with a refractory lined burn-container for portable and stationary applications. Designed for the environmentally friendly high temperature reduction of clean wood waste in forestry, agriculture, land clearing, at landfills, transfer stations, etc. in compliance with the requirements of US EPA 40CFR60.

Shipped from the factory completely assembled ready for immediate use and does not require disassembly for relocation. The FireBox is also used for disaster recovery and Department of Homeland Security (FEMA) contingencies. Electrically powered FireBox (S330E) also available.

1	Power	Four-cylinder 74 hp Turbo Diesel Engine, HATZ 4H50TIC or equivalent engine; Does not require DEF; Emissions certified U.S. EPA Tier 4F; Engine mounted fluid coupling (automatic clutch).				
2	Burn Container (FireBox)	4 in. (102 mm) thick refractory wall panels filled with proprietary thermal ceramic material; Two full height refractory rear doors; Three ignition holes; Firebox open to the ground.				
3	Safety Systems	Engine over temperature shut down; Loss of cooling fluid shutdown; Loss of oil pressure shutdown; Front deck security enclosure.				
4	Instrument Panel	MBW electronic engine control with preset throttle settings: key switch, tachometer, hour meter, fuel gauge, oil pressure and water temperature and safety shutdown features.				
5	Air Supply	Custom heavy duty air fan.				
6	Fuel Tank	110 gal. (416 L) minimum fuel tank capacity.				
7	Transportation & Set-up	Shipped completely assembled; Ready for immediate use; Lifting pads provided for crane lifting; Unit can be dragged onsite on its skids.				
8	Options	Ash clean-out rake with 1" (25 mm) blank steel faceplate interface to accommodate loader to be attached by end-user.				
9	Average Through-put	11-13 t/hr. (Average – See Note).				
10	Fuel Consumption	Approx. 3 gal./hr. (11.4 L/hr.) Ultra-low sulfur Diesel fuel (ULSD).				
11	Weight	59,000 lb. (26,760 kg)				
12	Dimensions	<table border="0" style="width: 100%; text-align: center;"> <tr> <td style="width: 50%;">Overall Size L x W x H</td> <td style="width: 50%;">Fire Box L x W x H</td> </tr> <tr> <td>40' 4" x 11' 10" x 9' 8" (12.3 m x 3.6 m x 2.9 m)</td> <td>30' 2" x 8' 5" x 8' 1" (9.2 m x 2.6 m x 2.5 m)</td> </tr> </table>	Overall Size L x W x H	Fire Box L x W x H	40' 4" x 11' 10" x 9' 8" (12.3 m x 3.6 m x 2.9 m)	30' 2" x 8' 5" x 8' 1" (9.2 m x 2.6 m x 2.5 m)
Overall Size L x W x H	Fire Box L x W x H					
40' 4" x 11' 10" x 9' 8" (12.3 m x 3.6 m x 2.9 m)	30' 2" x 8' 5" x 8' 1" (9.2 m x 2.6 m x 2.5 m)					

Note: Achievable through-put depends on several variables, especially the nature of the wood waste feedstock, the firebox temperature and the loading rate. All weights and dimensions are approximate and metric conversions are rounded. Specifications are subject to change without notice. The FireBox is offered for the reduction of clean wood waste. For detailed operating instructions and safety precautions, refer to the S300 Operating Manual.



AIR BURNERS, INC.
 4390 SW Cargo Way • Palm City, FL 34990
 Phone 772-220-7303
 E-mail: info@airburners.com • www.Airburners.com
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Rev. 02.27.2024

**MANUFACTURER'S STATEMENT OF ORIGIN (MSO)
FOR S-SERIES AIR CURTAIN BURNER**

Air Burners, Inc. hereby certifies that the new S-Series Air Curtain Burner described below, property of Air Burners, Inc., has been transferred this 31st day of July, 2025.

To: Boyle County Fiscal Court

Whose Address is:
321 W. Main Street
Danville, KY 40422

Trade Name: Air Burners, Inc. Model: S330 Year: 2025

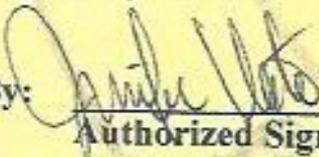
Type of Construction: Steel Frame with Castable Thermal Ceramic Walls

Serial Number: S30FDN25703

Shipping Weight: 59,000 lb.

Air Burners, Inc. further certifies that this is the first transfer of said S-Series Air Curtain Burner as described above in ordinary trade or commerce.

Date: July 31, 2025

By: 
Authorized Signature

Air Burners, Inc.
4390 SW Cargo Way
Palm City, Florida 34990, USA
Phone: 772-220-7303
E-Mail: info@airburners.com

WARRANTY REGISTRATION
For Additional Warranty Components
S-Series Machines

We have registered your warranty for the following components with their respective manufacturers for you. The effective dates of these separate warranties are the same as the effective date of the Equipment Warranty (see Paragraph 1). Should a warranty matter arise, please, contact Air Burners, Inc. at 888-566-3900, 772-220-7303 or by Email to support@airburners.com.

Air Burners, Inc. Model	S330
Unit Serial No.	S30FDN25703
Date Shipped	July 31, 2025

Engine (Motor) Manufacturer	HATZ
Engine Model	4H50TIC
Engine Serial No.	1362225013734

PTO Manufacturer*	NA
PTO Model	NA
PTO Serial No.	NA

Battery Manufacturer	Interstate Battery
Battery Part No.	24M-XHD
Battery Serial No.	NA

* Applies to machines with Manual Power Take-off only

Air Burners, Inc.
4390 SW Cargo Way, Palm City, Florida 34990
PH (772) 220-7303
Email: support@airburners.com

Rev. 06/24/2024