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Chattanooga-Hamilton County Air Pollution Control Bureau

#### SMYRNA READY MIX CONCRETE, LLC 1000 HOLLINGSHEAD CIRCLE MURFREESBORO, TN 37129 OFFICE 615-355-1028 FAX 615-242-3064

January 27, 2025

Chattanooga-Hamilton County Air Pollution Control Bureau CBL Center II 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421

Air permit

To whom it may Concern,

Smyrna Ready Mix Materials would like to file for an operating Air Permit for the Cement Storage Dome, that is located at 1400 West 37<sup>th</sup> Street Chattanooga TN, 37407. At this location Dry Cement Powder will be offloaded from Rail cars, stored in a Dome and then transferred to Trucks for delivery. I have attached completed forms E001, E010, E102, Flow Diagram and Emissions sheets for each of the Emission Points.

I hope this information is in order, if there is anything I can be assistance with I can be reached at (615) 642-3714.

Sincerely,

Scott Grazier

**Environmental Director** 

Scott.grazier@smyrnareadymix.com

# BASIC APPLICATION FOR EQUIPMENT / AIR POLLUTION PERMIT OR CERTIFICATE OF OPERATION

FORM E001 03/2011

1.	Name of Company Smyrna Ready Mix Concrete, LLC	2.	NAICS Co	de: 32739	90
	(If corporation or LLC, name on file with Tennessee Secretary of State Co	orporate Records Division)			
3.	Company Official to Contact: Scott Grazier	4.	Phone No.	615-642-	-3714
_	Mailing Address: 1000 Holligshead Circle	Murfrees	boro	TN	37129
5.	Street or P.O. Bo	x City		State	Zip Code
6.	Physical Location (If different from line 5) 1400 west 37th Street	Chattanoo	ga	TN	37407
	(If different from time 3) Street	City		State	Zip Code
7.	Application for:  ✓ Installation Permit Initial Certification	ate of Operation	Renewal C	ertificate o	f Operation
	Previous Installation Permit or Certificate of Operation	n No.:			
8.	Type of equipment for which application is made:				
	Process Equipment (Form E010 or Form E010A)	Previously Submit	ted	1	Attached
	Fuel Burning Equipment (Form E011)	Previously Submit	ted		☐ Attached
	☐ Incineration Equipment (Form E012)	Previously Submit	ted		Attached
	Minor Pollution Source (Form E014)	Previously Submit	tted		☐ Attached
	(Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled c	ontaminant emissions)		F	RECEIVED
	The following forms are filed with this application:			·	or a lorest
	E010, E106 2			MA	Y 2 2 2025
9.	Equipment Name: Cement Dome storage Silo Truck Loading			Chatta Air P	nooga-Hamilton County ollution Control Bureau
10.	If application is for a Certificate of Operation (Initial or Rene- equipment or operation which <u>might</u> :	wal), are there any chang	es since previ	ous applica	ntion in the
	A. Increase, decrease, or alter process materials, fuel, refuse t	ype, etc.? Yes	No No		
	B. Increase, decrease, or alter emissions or emission points?	Yes	No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration R Rate, 1,000 Btu/hr, (Item 7C on Form E011): 310 Tons	ate, lb/hr, (Item 3C on Fo	orm E012), or	Fuel Burn	ing ———
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	g this equipment and the	information p	rovided on	this application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU	Seatt In	oyus Name		
	2034 Hamilton Place Blvd., Suite 300	Environmental Director			
	Chattanooga, TN 37421	E/a. / a	Title		
	This form must be completely filled out before it will be processed	3/22/202	Date		

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#### PROCESS EQUIPMENT APPLICATION

Name of Company (as shown on Line	e 1, Form E00	1): Hollin	gshead Materials, LI	.C	
Equipment Name (as shown on Line	10, Form E00	1): <u>Vacu</u>	oac Aervent		
Installation Date: 11/1/2024	4. <i>Typ</i>	e of Proc	ess: Vent		
Major Raw Materials Used: Dry Ceme	ent Powder				
Process Weight: 880,00 This is the total weight	0 at maximum of all materials in	capacity stroduced int	Pou o the process.	nds pe	er hour
Control Equipment					
Emissions Uncontrolled		✓ Bag	house (File Form E	102)	
Wet Collecting Device (File Form	E103)	☐iner	ial Separators (File	Form	n E105)
Electrostatic Precipitator (File Fo	rm E104)	Oth	er – Specify:		
Control Efficiency					
Enter the control efficiency for each pollutant er zeros if the emissions are uncontrolled as note	mitted by this equ d in Item 7.	ipment (for a	appropriate Forms E102	, E103,	E104, E105, E107, or enter
Pollu	tant		Efficiency		
Particulates		99	%+ @ 1-2μm		
SO <sub>x</sub>					
NO <sub>x</sub>					
co					
Hydrocarbons	5				
Other:				į.	
Emissions					Tr.
Summary					
Enter the amount of each pollutant listed in pol	unas per nour				
Pollutant	Uncontrolled E (File Form		Actual Emissions (Stack Test Report)		Estimated Emissions (See Formula A)
Total Suspended Particulate					
PM10			0.23		
Sulfur Oxides				OR	
Nitrogen Oxides (as NO <sub>2</sub> )				"`	
Other (specify)					
8					
Formula A: Estimate	ed Emissions =	(100%	- Control Efficiency (9	%))	X Uncontrolled Emissions

10.	Environmental Impact
	Those emissions indicated in Item 9 may at times under normal operating conditions cause (check all that apply):
	Odors Eye Irritations Property Damage Health Effects
	Other nuisances outside of plant property  No environmental damage
11.	Emission Point Data
	Stack Height (emission point) above ground:  Ground Elevation above sea level at stack base: Stack Diameter:  29.0  Ft. Volume of gas discharged into atmosphere:  800  cfm  Gas exit temperature:  Ft. Ft. Ft. Ft. Ft. Gas exit temperature:
12.	Ave. Operating Time
	Daily: 24 hours Weekly: 6 Days Yearly: 52 Weeks
	This is to certify that I am familiar with the operations concerning this equipment and that the information provided on this application is true and complete to the best of my knowledge.
	Company Official
	CEO
	Title
	January 27, 2025  Date

1.	Name of Company: Hollingshead Materials, LLC  As shown on Line 1 of Form E001	
2.	Name of Equipment: Vacupac Aervent  As shown on Line 9 of Form E001	
3.	Equipment Data:  Manufacturer of Baghouse: Midwest International	1
1	Model Number: MAV10552 Cost of Baghouse:	
	Date of Manufacture: 2024 Date of Installation: 11/1/2024	
	Pre-cleaning Equipment No Yes  If yes, what type (File appropriate form for control equipment)	
	Volume of gas discharged from baghouse at dry standard conditions: 800 dscfm	
	Total cloth area of baghouse: $\underline{248}$ $\underline{tt^2}$	
	Air to cloth ratio:  3.2:1    Ft   (Divide volume of gas discharged by total cloth area)	
4.	Pressure Drop Across Baghouse: Stated by manufacturer: 3-5 Inches of H <sub>2</sub> O	7
	Measured (actual): Inches of H <sub>2</sub> O	
	Calculated: $X = Inches of H_2O$ Air to cloth ratio in ft/min Inches of H_2O	
	The recommended pressure drop range in inches of H <sub>2</sub> O is 1.5 (minimum) to 8.0 (maximum).	1
	If the measured or calculated pressure drop falls outside the recommended range, contact the Chattanooga-Hamilton County Air Pollution Control Bureau.	
5.	Filter Data:	٦
	Type of fabric filters used in baghouse: spunbond Polyester  Operating temperature: Ambient °F Ambient °F 275 °F	
	Operating temperature: Ambient °F Ambient °F 275 °F  Manufacturer's Normal Maximum  Recommended	
	If the maximum operating temperature exceeds the recommended operating temperature, contact the Chattanooga-Hamilton County Air Pollution Control Bureau.	
6.	Baghouse Components:	
	Check all that apply.  Flow rate instrumentation  Inlet gas temperature instrumentation  Evaporative Cooler	
	Dew point indicator Differential pressure instrumentation Other (Describe)	١
	Heat Exchanger Transmissometer	
7.	Baghouse Operation:	
	Continuous Intermittent  Page 1 of 3	

	Baghouse Description:
	Baghouse Inlet (dirty gas):  Bottom Feed Top Feed
	Exterior Filtration Tangential
	Other (Describe):
	Does the baghouse have a wear-resistant plate?
	Baghouse shape: Rectangular Cubical Cylindrical
	Other (Describe):
	Baghouse volume: Ft <sup>3</sup>
	Baghouse dimensions: 5 Ft 1'6" Ft 2'8" Ft Length Width Ft height
	Baghouse shell material: Carbon Steel
8.	Bag Cleaning: (check one)
	Fabric Flexing Reverse Air Cleaning
	Mechanical Shaking & Rapping Reverse Jet
	Sonic Cleaning Reverse Flow
	Collapse Cleaning Manual Cleaning
	Pulse (pressure) – Jet Cleaning
9.	Filter Configuration:  Panels  Multiple Tube Bag
9.	
9.	Panels Multiple Tube Bag
9.	Panels
9.	Panels
9.	Panels
	Panels   Multiple Tube Bag     Circular Cross-Section Tube   Other (Describe):     Filter Fabric:   Felted   Woven Number of Compartments:   4     Filter Area: 248   Ft²   Number of Filters per Compartment: 1      Particle Size Distribution in Microns (μ):   Moisture in gas stream:   %     Size   0-5μ   5-10μ   10-20μ   20-44μ   Greater than 44μ
	Panels Multiple Tube Bag   Circular Cross-Section Tube Other (Describe):   Filter Fabric: Felted   Woven Number of Compartments:   Filter Area: 248   Ft² Number of Filters per Compartment:   1    Particle Size Distribution in Microns (μ):  Particle Type(s):  Moisture in gas stream:  %
	Panels   Multiple Tube Bag     Circular Cross-Section Tube   Other (Describe):     Filter Fabric:   Felted   Woven Number of Compartments:   4     Filter Area: 248   Ft²   Number of Filters per Compartment: 1      Particle Size Distribution in Microns (μ):   Moisture in gas stream:   %     Size   0-5μ   5-10μ   10-20μ   20-44μ   Greater than 44μ
10.	Panels   Multiple Tube Bag     Circular Cross-Section Tube   Other (Describe):     Filter Fabric:   Felted   Woven Number of Compartments: 4     Filter Area: 248   Ft²   Number of Filters per Compartment: 1     Particle Size Distribution in Microns (μ):   Moisture in gas stream:   %     Size   0-5μ   5-10μ   10-20μ   20-44μ   Greater than 44μ     % by weight   99%+                                     Dust Disposal:   Manual (Describe):
10.	Panels
10.	Panels   Multiple Tube Bag     Circular Cross-Section Tube   Other (Describe):     Filter Fabric:   Felted   Woven Number of Compartments: 4     Filter Area: 248   Ft²   Number of Filters per Compartment: 1      Particle Size Distribution in Microns (μ):   Moisture in gas stream:   %     Size   0-5μ   5-10μ   10-20μ   20-44μ   Greater than 44μ   % by weight   99%+               Moisture in gas stream:   %               Size   0-5μ   5-10μ   10-20μ   20-44μ   Greater than 44μ

12.		ol Efficiency: nufacturer's Sta	ted Efficienc	cy:	99%+			%	
	Required Efficiency:							%	
	Operational Efficiency (performance testing): %								
	[	Size	0-5μ	5-10μ	10-20μ	20-44μ	Greater than	1 44μ	
	l	% by weight	99%+						
13.	Fan D Fan	ata: Location:	Clean a	ir side (pull thr	ough)	Dirty air side	e (push throug	h)	
	Fan	Design (check of	ne – A, B, or C)	:					
	Fan	Type:		Blade	Type:				
	A.	Centrifug	al (radial flo	ow)	rward Curve	Backward	i Curve	Straight	
	B.	Axial-flo	w (propeller	) Pro	opeller	Tube Axi	al 🗌	Vane Axial	
	Far	Properties:							
		Diameter: Speed: Volume: Static Pressure	10.625 3450 800 e: .075		Inl @ STP Ou	aking Horsepowe et Area: itlet Area: otor Horsepower	.50 0.2500	BHP Ft <sup>2</sup> Ft <sup>2</sup> HP	
		Standard		Heavy Duty	Submitted of Multirating	copy of Manufacturer Tables	's Yes	No	
	Spe	ecial Construction	on Materials	:					
		Bronze All	loys	Alum	inum	Stainless Ste	eel	Bisonite	
		Zinc Chro	mate Primer	Rubbe	er, Phenolics,	Vinyls, or Epoxy	Covering		
	C.	Compres	sor	Positive Disp	lacement	Dynamic	Recipro	cating	
	This is t	to certify that I am f tion is true and com	amiliar with the plete to the bes	e operations conce t of my knowledge.	rning this equipm This form must	ent and that the infor- be completely filled	mation provided out before it will	on this be processed.	
	Mail to:			Company C	Official:	If Hay	llez		
	CHATT COUNT CONTE 2034 H	TANOOGA-HAMII TY AIR POLLUTIO ROL BUREAU amilton Place Blvd. nooga, TN 37421	ON		Title: <u>CEO</u>				
	Chattan	100ga, 114 37 421			Date: 1/27/	25			
				Do not w	rite below this lin	e			
		Engineer Approv	al Permit N	lumber:					
	Special	Notations:				181			

#### PROCESS EQUIPMENT APPLICATION

	s snown on Lir	e 1, Form E00	1): Holli	ngshead Materials, Ll		
<b>Equipment Name</b> (as	shown on Line	10, Form E00	1): <u>DCL</u>	BV144-100 Bin Ven	t	
Installation Date: 10/2	3/24	4. <i>Typ</i>	e of Proc	ess: Dome Dust Col	llector	
Major Raw Materials	Used: Dry Cem	ent Powder				
Process Weight:	880,00 is is the total weigh	00 at maximum on t of all materials in		Pour the process.	nds pe	er hour
Control Equipment						
Emissions Uncon	trolled		<b>√</b> Bag	house (File Form E	102)	
☐ Wet Collecting De	evice (File Forn	n E103)	☐ Iner	tial Separators (File	e Form	n E105)
Electrostatic Pred	ipitator (File Fo	orm E104)	Oth	er – Specify:		
Control Efficiency	1					
11 (4)	for each pollutant e	emitted by this equed in Item 7.	ipment (for	appropriate Forms E102	2, E103,	E104, E105, E107, or enter
	Pollu	utant		Efficiency	ř.	
6	Particulates		99.95@2	.50 Micron & Larger	E	
2	SO <sub>x</sub>				É	
	NO <sub>x</sub>				ĝ	
	CO				ĝ	
	Hydrocarbon	S			1	
Other:						
Emissions Summary						· ·
Enter the amount of each p	ollutant listed in po	ounds per hour,				
Polluta		Uncontrolled E (File Form		Actual Emissions (Stack Test Report)		Estimated Emissions (See Formula A)
Total Suspende						
PM1				0.5786		
Sulfur O					OR	
Nitrogen Oxide					~	
Other (sp	ecify)					
					-	
=======================================					1	

	Environmental Impact						
7	Those emissions indicated i	n Item 9 may at times	under normal op	erating co	onditions cause (chec	k all that apply):	
	Odors	Eye Irritations	F	Property	Damage	Health Effec	ts
	Other nuisances	outside of plant pro	operty		✓ No environ	mental damage	
	Emission Point Data				· b		
	•	n point) above ground we sea level at stack b		— Ft. — Ft. — Ft.	Volume of gas discl Gas exit temperatur	narged into atmosphere: re:	9,000 cfm ambient °F
	Ave. Operating Time						
	Daily: 24	hours W	/eekly: 6		Days	Yearly: 52	_ Weeks
-	This is to certify that I am fa and complete to the best of	miliar with the operation my knowledge.	ons concerning th	nis equipr	nent and that the info	mation provided on this a	application is tru
		,			CEO	Title	
					January 27, 2025	Date	

1.	Name of Company: Hollingshead Materials, LLC  As shown on Line 1 of Form E001	
2.	Name of Equipment: DCL BV144-100 Bin Vent	
	As shown on Line 9 of Form E001	
3.	Equipment Data:  Manufacturer of Baghouse: DCL	
	Model Number: BV144-100	Cost of Baghouse: \$67,745
	Date of Manufacture: 2024	Date of Installation: 11/1/2024
	Pre-cleaning Equipment No Yes If ye	s, what type (File appropriate form for control equipment)
	Volume of gas discharged from baghouse at dry stand	dard conditions: 9,000 dscfm
	Total cloth area of baghouse: 1,728	ft²
	Air to cloth ratio: $5.20:1$ Ft Min Divide	e volume of gas discharged by total cloth area)
4.	Pressure Drop Across Baghouse: Stated by manufacturer: 3-5	Inches of H <sub>2</sub> O
	Measured (actual):	Inches of H <sub>2</sub> O
	Calculated: X Air to cloth ratio in fi	= Inches of H <sub>2</sub> O
	The recommended pressure drop range in inches	of H <sub>2</sub> O is 1.5 (minimum) to 8.0 (maximum).
	If the measured or calculated pressure drop falls outside the t County Air Pollution Control Bureau.	recommended range, contact the Chattanooga-Hamilton
5.	Filter Data:  Type of fabric filters used in baghouse: Polyprop	vlene Singed Rags
	•	Ambient °F Ambient °F  Normal Maximum
	If the maximum operating temperature exceeds the recommen County Air Pollution Control Bureau.	nded operating temperature, contact the Chattanooga-Hamilton
6.	Baghouse Components:  Check all that apply.  Flow rate instrumentation Inlet gas temp	perature instrumentation  Evaporative Cooler
	Dew point indicator Differential p	ressure instrumentation
	Heat Exchanger Transmissom	eter ———————————————————————————————————
8		
7.	Baghouse Operation:  Continuous	Intermittent Page 1 of 3

8,	Baghouse Description:  Baghouse Inlet (dirty gas):  Bottom Feed  Top Feed
	Exterior Filtration Tangential
	Other (Describe):
	Does the baghouse have a wear-resistant plate?
	Baghouse shape: Rectangular Cubical Cylindrical
	Other (Describe):
	Baghouse volume: 576 Ft <sup>3</sup>
	Baghouse dimensions: 8 Ft 8 Ft 9 Ft  Length Width height  Baghouse shell material: Carbon Steel
8.	Bag Cleaning: (check one)
<b>0.</b>	Fabric Flexing Reverse Air Cleaning
	Mechanical Shaking & Rapping  Reverse Jet
	Sonic Cleaning Reverse Flow
	Collapse Cleaning Manual Cleaning
	Pulse (pressure) – Jet Cleaning
9.	Filter Configuration: Panels  Multiple Tube Bag
	Circular Cross-Section Tube Other (Describe):
	Filter Fabric: Woven Number of Compartments: 1
	Filter Area: 1728 Ft <sup>2</sup> Number of Filters per Compartment: 12
10.	Particle Size Distribution in Microns (μ):
	Particle Type(s): Dry Cement Powder Moisture in gas stream: %
	Size         0-5μ         5-10μ         10-20μ         20-44μ         Greater than 44μ           % by weight         99.95%
11.	Dust Disposal:
9	Automatic (screw conveyor, etc.) Manual (Describe):
	How often are hoppers emptied? Every hours
	Name of commercial disposal company (if applicable):
	Is disposed material wetted for transport?
	Disposal Site: Powder is reclaimed  Page 2 of 3

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12.	Control Efficiency:  Manufacturer's Stated Efficiency:  99.95  %
	Required Efficiency: %
	Operational Efficiency (performance testing): %
	Size         0-5μ         5-10μ         10-20μ         20-44μ         Greater than 44μ           % by weight         99.95         —
13.	Fan Data: Fan Location: Clean air side (pull through) Dirty air side (push through)
	Fan Design (check one – A, B, or C):  Fan Type:  Blade Type:
	A. Centrifugal (radial flow) Forward Curve Backward Curve Straight
	B. Axial-flow (propeller) Propeller Tube Axial Vane Axial
	Fan Properties:  Diameter: 36
	This is to certify that I am familiar with the operations concerning this equipment and that the information provided on this application is true and complete to the best of my knowledge. This form must be completely filled out before it will be processed.  Company Official:  Mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421
	Date: 1/27/2025
	Do not write below this line.  Engineer Approval Permit Number:
	Special Notations:

#### PROCESS EQUIPMENT APPLICATION

<b>Equipment Name</b> (as s	shown on Line	10, Form E00	01): <u>CPE</u> 1	Filters Inc. Dust Coll	ector	
Installation Date: 11/1/2				ess: Dust Collector		
Major Raw Materials U						
Process Weight:This		00 at maximum nt of all materials i		Pour the process.	nds pe	er hour
Control Equipment	_					
Emissions Uncontr	olled		<b>√</b> Bag	house (File Form E	102)	
☐Wet Collecting Dev	vice (File Forr	n E103)	☐ Iner	tial Separators (File	e Form	E105)
Electrostatic Precip	oitator (File Fo	orm E104)	Oth	er – Specify:		
Control Efficiency						
Enter the control efficiency fo zeros if the emissions are uno			uipment (for a	appropriate Forms E102	2, E103,	E104, E105, E107, or enter
	Polli	utant	%	Efficiency		
-	Particulates			2 0.55 Micron & Lgr.		
· <del>-</del>	SO <sub>x</sub>					
7	NO <sub>x</sub>				65	
	CO					
=	Hydrocarbon	s			ii.	
Other:					6	
Emissions Summary						
Enter the amount of each pol	llutant listed in po	ounds per hour.				
Polluta		Uncontrolled I	Company of the Compan	Actual Emissions (Stack Test Report)		Estimated Emissions (See Formula A)
Total Suspended					1 1	
PM10				0.1607		
Sulfur Ox					OR	
Nitrogen Oxides					1,,,	
Other land	ecify)					
Other (spe					1	
Other (spe						
Other (spe					1	

10.	Environmental Impact	90					
	Those emissions indicated in	n Item 9 may at times under n	ormal operating co	nditions cause (check all	that apply):		
	Odors	Eye Irritations	Property	Damage	Health Effect	ts	
	Other nuisances of	outside of plant property		✓ No environmental damage			
11.	Emission Point Data						
	l • ·	n point) above ground: ve sea level at stack base:	16.5 Ft. Ft. 1' Ft.	Volume of gas discharg Gas exit temperature:	ed into atmosphere:	2,500 cfm ambient °F	
12.	Ave. Operating Time						
	Daily: 24	hours Weekly:	6	Days	Yearly: 52	_ Weeks	
	This is to certify that I am fa and complete to the best of	miliar with the operations con my knowledge.	cerning this equipn	nent and that the informa	tion provided on this a	application is true	
				CEO.	Company Official		
				CEO	Title		
				January 27, 2025	Date		

1.	Name of Company: Hollingshead Materials, LLC  As shown on Line 1 of Form E001
2.	Name of Equipment: CPE Filters Inc. Dust Collector  As shown on Line 9 of Form E001
3.	Equipment Data:  Manufacturer of Baghouse: CPE Filters Inc.
	Model Number: 100-TNFD-049-c Cost of Baghouse: \$27,000
	Date of Manufacture: 2024 Date of Installation: 11/1/2024
	Pre-cleaning Equipment No Yes  If yes, what type (File appropriate form for control equipment)
	Volume of gas discharged from baghouse at dry standard conditions: 2,500 dscfm
	Total cloth area of baghouse: 629 ft <sup>2</sup>
	Air to cloth ratio: 3.98:1 The Divide volume of gas discharged by total cloth area)
4.	Pressure Drop Across Baghouse:
	Stated by manufacturer: 3-5 Inches of H <sub>2</sub> O
	Measured (actual): Inches of H <sub>2</sub> O
	Calculated: $X = Inches of H_2O$ Air to cloth ratio in ft/min
	The recommended pressure drop range in inches of H <sub>2</sub> O is 1.5 (minimum) to 8.0 (maximum).
	If the measured or calculated pressure drop falls outside the recommended range, contact the Chattanooga-Hamilton County Air Pollution Control Bureau.
5.	Filter Data:  Type of fabric filters used in baghouse: 16oz. Polyester
	Operating temperature: Ambient °F
	If the maximum operating temperature exceeds the recommended operating temperature, contact the Chattanooga-Hamilton County Air Pollution Control Bureau.
6.	Baghouse Components:  Check all that apply.
	Flow rate instrumentation Inlet gas temperature instrumentation Evaporative Cooler
	Dew point indicator  Differential pressure instrumentation  Other (Describe)  Air Header Press. Gauge
	Heat Exchanger Transmissometer
7	Pachauga Operations
7.	Baghouse Operation:  Continuous  Intermittent  Page 1 of 3

8.	Baghouse Description:  Baghouse Inlet (dirty gas):  Bottom Feed  Top Feed
	Exterior Filtration Tangential
	Other (Describe):
	Does the baghouse have a wear-resistant plate?
	Baghouse shape: Rectangular Cubical Cylindrical
	Other (Describe):
	Baghouse volume: 2,500 Ft <sup>3</sup>
	Baghouse dimensions: 4'8" Ft 4'8" Ft 22' Ft
	Baghouse shell material:    Length   Width   height
d s	
8.	Bag Cleaning: (check one)  Fabric Flexing  Reverse Air Cleaning
	Mechanical Shaking & Rapping Reverse Jet
	Sonic Cleaning Reverse Flow
	Collapse Cleaning Manual Cleaning
	Pulse (pressure) – Jet Cleaning
9	Filter Configuration:
0	i filti Cullizui auvu.
9.	Panels Multiple Tube Bag
9.	
9.	Panels Multiple Tube Bag
9.	Panels  Multiple Tube Bag  Circular Cross-Section Tube  Other (Describe):
39	Panels  Multiple Tube Bag  Circular Cross-Section Tube Other (Describe):  Filter Fabric: Felted Woven Number of Compartments:  Filter Area: 629  Ft² Number of Filters per Compartment: 49
9.	Panels  Multiple Tube Bag  Circular Cross-Section Tube Other (Describe):  Filter Fabric: Felted Woven Number of Compartments:  1
39	Panels   Multiple Tube Bag     Circular Cross-Section Tube   Other (Describe):     Filter Fabric:   Felted   Woven Number of Compartments:   1     Filter Area: 629   Ft²   Number of Filters per Compartment: 49      Particle Size Distribution in Microns (μ):   Particle Type(s):   Cement   Moisture in gas stream:   %     Size   0-5μ   5-10μ   10-20μ   20-44μ   Greater than 44μ
39	Panels   Multiple Tube Bag     Circular Cross-Section Tube   Other (Describe):     Filter Fabric:   Felted   Woven Number of Compartments:   1     Filter Area: 629   Ft²   Number of Filters per Compartment: 49      Particle Size Distribution in Microns (μ):   Particle Type(s):   Cement   Moisture in gas stream:   %
39	Panels   Multiple Tube Bag     Circular Cross-Section Tube   Other (Describe):     Filter Fabric:   Felted   Woven Number of Compartments:   1     Filter Area: 629   Ft²   Number of Filters per Compartment: 49      Particle Size Distribution in Microns (μ):   Particle Type(s):   Cement   Moisture in gas stream:   %     Size   0-5μ   5-10μ   10-20μ   20-44μ   Greater than 44μ
10.	Panels   Multiple Tube Bag     Circular Cross-Section Tube   Other (Describe):     Filter Fabric:   Felted   Woven Number of Compartments:   1     Filter Area: 629   Ft² Number of Filters per Compartment: 49      Particle Size Distribution in Microns (μ):   Particle Type(s):   Cement   Moisture in gas stream:   %     Size   0-5μ   5-10μ   10-20μ   20-44μ   Greater than 44μ   % by weight   99.98       Dust Disposal:   Dust Di
10.	Panels   Multiple Tube Bag     Circular Cross-Section Tube   Other (Describe):     Filter Fabric:   Felted   Woven Number of Compartments:   1     Filter Area: 629   Ft²   Number of Filters per Compartment: 49      Particle Size Distribution in Microns (μ):   Particle Type(s):   Cement   Moisture in gas stream:   %     Size   0-5μ   5-10μ   10-20μ   20-44μ   Greater than 44μ   % by weight   99.98
10.	Panels   Multiple Tube Bag     Circular Cross-Section Tube   Other (Describe):     Filter Fabric:   Felted   Woven Number of Compartments:   1     Filter Area: 629   Ft²   Number of Filters per Compartment: 49      Particle Size Distribution in Microns (μ):   Particle Type(s):   Cement   Moisture in gas stream:   %     Size   0-5μ   5-10μ   10-20μ   20-44μ   Greater than 44μ   % by weight   99.98

Control Efficiency:  Manufacturer's Stated Efficiency:	%
Required Efficiency:	<b>%</b>
Operational Efficiency (performance testing):	<u></u> %
Size         0-5μ         5-10μ         10-20μ         20-44μ         Great           % by weight $^{-1}$ <td>ater than 44µ</td>	ater than 44µ
Fan Data: Fan Location: Clean air side (pull through) Dirty air side (pusl	n through)
Fan Design (check one – A, B, or C):	
Fan Type: Blade Type:	
A. Centrifugal (radial flow) Forward Curve Backward Curv	e Straight
B. Axial-flow (propeller) Propeller Tube Axial	Vane Axial
Fan Properties:	
Speed: 3450 RPM Inlet Area: Volume: 2500 Cfm @ STP Outlet Area: Static Pressure: Inches WC Motor Horsepower:	10.48 BHP 1.0000 Ft <sup>2</sup> 1.0000 Ft <sup>2</sup> 7.5 HP
Standard Heavy Duty Submitted copy of Manufacturer's Multirating Tables	Yes No
Special Construction Materials:	□ n: ::-
Bronze Alloys Aluminum Stainless Steel	Bisonite
Zinc Chromate Primer Rubber, Phenolics, Vinyls, or Epoxy Cove	ring
c compress.	Reciprocating
This is to certify that I am familiar with the operations concerning this equipment and that the information application is true and complete to the best of my knowledge. This form must be completely filled out bef	provided on this ore it will be processed.
Mail to:  Company Official:  Signature	<u> </u>
CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	
1 105/0005	
Do not write below this line.	
Engineer Approval Permit Number:	

#### PROCESS EQUIPMENT APPLICATION

1.	Name of Company (as	shown on Line	e 1, Form E00	1): Hollin	gshead Materials, LL	C	
2.	Equipment Name (as s	hown on Line	10, Form E00	1): <u>DCL</u>	BV121-100 Bin Vent		
3.	Installation Date: 10/23/	/24	4. <i>Typ</i>	e of Proc	ess:Bin Vent		
5.	Major Raw Materials U	sed: Dry Ceme	ent Powder				
6.	Process Weight:This	880,00	0 at maximum t of all materials in	capacity stroduced int	Pour o the process.	nds pe	er hour
7.	Control Equipment						-
	Emissions Uncontro	olled		✓ Bagi	house (File Form E	102)	
	☐ Wet Collecting Dev	rice (File Form	E103)	☐ Iner	tial Separators (File	Form	n E105)
	Electrostatic Precip	itator (File Fo	rm E104)	Othe	er – Specify:		
8.	Control Efficiency						
	Enter the control efficiency for zeros if the emissions are und	reach pollutant e controlled as note	mitted by this equ d in Item 7.	ipment (for a	ppropriate Forms E102	, E103,	E104, E105, E107, or enter
		Pollu	tant	%	Efficiency		
	U	Particulates		99.95%@	2.50 Micron & LGR.		V
		SO <sub>x</sub>					
		NO <sub>x</sub>					
		CO					k
		Hydrocarbons	5				
	Other: _						
9.	Emissions Summary						
	Enter the amount of each pol	lutant listed in po	unds per hour.				
	Pollutar		Uncontrolled E (File Form		Actual Emissions (Stack Test Report)		Estimated Emissions (See Formula A)
	Total Suspended				0.4001		
	PM10				0.4821		
	Sulfur Oxi					OR	
	Nitrogen Oxides						
	Other (spe	ciry)					
	-						
	Formula A:	Estimate	ed Emissions =	(100%	- Control Efficiency (% 100%	6))	X Uncontrolled Emissions

Environmental Impact					
Those emissions indicated in Ite	em 9 may at times under no	ormal operating co	nditions cause (check all	that apply):	
Odors E	ye Irritations	Property	Damage	Health Effect	s
Other nuisances outs	side of plant property		No environmen	ntal damage	
Emission Point Data					
Stack Height (emission po Ground Elevation above s Stack Diameter:	sea level at stack base:	86.0 Ft. 655 Ft. 1'6" Ft.	Volume of gas discharge Gas exit temperature:	ed into atmosphere:	7,500 cfm ambient °F
Ave. Operating Time					
Daily: 24 h	ours Weekly:	6	Days	Yearly: 52	Weeks
This is to certify that I am familia and complete to the best of my	ar with the operations cond knowledge.	cerning this equipn	nent and that the informat	tion provided on this a	pplication is true
			Jeff 18	Company Official	
			CEO	· Title	
			January 27, 2025	Date	

ι.	Name of Company: Hollingshead Materials, LLC  As shown on Line 1 of Form E001
2.	Name of Equipment: DCL BV121-100 Bin Vent  As shown on Line 9 of Form E001
3.	Equipment Data:  Manufacturer of Baghouse: DCL
	Model Number: BV121-100 Cost of Baghouse: 56,787
	Date of Manufacture: 2024 Date of Installation: 11/1/2024
	Pre-cleaning Equipment No Yes  If yes, what type (File appropriate form for control equipment)
	Volume of gas discharged from baghouse at dry standard conditions: 7,500 dscfm
	Total cloth area of baghouse: 1,452 ft <sup>2</sup>
	Air to cloth ratio: 5.16:1   Ft   (Divide volume of gas discharged by total cloth area)
4.	Pressure Drop Across Baghouse: Stated by manufacturer: 3-5 Inches of H <sub>2</sub> O
	Measured (actual): Inches of H <sub>2</sub> O
	Calculated: X = Inches of H <sub>2</sub> O
	The recommended pressure drop range in inches of H <sub>2</sub> O is 1.5 (minimum) to 8.0 (maximum).
	If the measured or calculated pressure drop falls outside the recommended range, contact the Chattanooga-Hamilton County Air Pollution Control Bureau.
5.	Filter Data: Type of fabric filters used in baghouse: Polypropylene Singed Bags
	Operating temperature: Ambient °F Ambient °F Ambient °F Ambient °F Manufacturer's Normal Maximum Recommended
	If the maximum operating temperature exceeds the recommended operating temperature, contact the Chattanooga-Hamilton County Air Pollution Control Bureau.
6.	Baghouse Components:  Check all that apply.
	Flow rate instrumentation Inlet gas temperature instrumentation Evaporative Cooler
	Dew point indicator Differential pressure instrumentation Other (Describe)
	Heat Exchanger Transmissometer
7.	Baghouse Operation:  Continuous  Intermittent  Page 1 of 3

8.	Baghouse Description:	l
	Baghouse Inlet (dirty gas):  Bottom Feed  Top Feed	l
-	Exterior Filtration Tangential	١
	Other (Describe):	١
	Does the baghouse have a wear-resistant plate?	١
	Baghouse shape:	١
	Other (Describe):	١
	Baghouse volume: 457 Ft <sup>3</sup>	١
	Baghouse dimensions: $\frac{7}{L_{ength}}$ Ft $\frac{7}{W_{idth}}$ Ft $\frac{9}{h_{eight}}$ Ft	١
	Baghouse shell material: steel steel	
ار ال		7
8.	Bag Cleaning: (check one)  Fabric Flexing  Reverse Air Cleaning	١
	Mechanical Shaking & Rapping Reverse Jet	١
	Sonic Cleaning Reverse Flow	
	Collapse Cleaning Manual Cleaning	١
	Pulse (pressure) – Jet Cleaning	
9		_
9.	Filter Configuration: Panels  Multiple Tube Bag	
	Circular Cross-Section Tube Other (Describe):	
	Filter Fabric: Felted Woven Number of Compartments:	
	Filter Area: 1452 Ft <sup>2</sup> Number of Filters per Compartment: 11	
		_
10.	Particle Size Distribution in Microns (μ):         Particle Type(s):       Dry Cement Powder       Moisture in gas stream:       %	
	Size 0-5μ 5-10μ 10-20μ 20-44μ Greater than 44μ	
	% by weight 99.95	
11.	Dust Disposal:	
11.	Automatic (screw conveyor, etc.)  Manual (Describe):	
	How often are hoppers emptied? Every hours	
	Name of commercial disposal company (if applicable):	
	Is disposed material wetted for transport?  Yes  No	
	Disposal Site: Powder is reclaimed  Page 2 of 3	

_				
12.	Control Efficiency: Manufacturer's Stated Efficiency:	99.95		<u></u> %
	Required Efficiency:	( <del>)</del>		
	Operational Efficiency (performance to	esting):		<b></b> %
	Size         0-5μ         5-1           % by weight         99.95	0μ 10-20μ	. 20-44μ	Greater than 44µ
13.	Fan Data: Fan Location: Clean air side (	(pull through)	Dirty air side	(push through)
	Fan Design (check one – A, B, or C):	(pun un ougas)		(
	Fan Type:	Blade Type:		
	A. Centrifugal (radial flow)	Forward Curv	e Backward	Curve Straight
	B. Axial-flow (propeller)	Propeller	Tube Axia	al Vane Axial
	Fan Properties:			
	Diameter:   22     1609		Braking Horsepowe Inlet Area: Outlet Area: Motor Horsepower: tted copy of Manufacturer' ating Tables	2.2500 Ft <sup>2</sup> 2.2500 Ft <sup>2</sup> 20 HP
8	Special Construction Materials:	8	-	
	☐ Bronze Alloys	Aluminum	Stainless Ste	_
	Zinc Chromate Primer	Rubber, Phenoli	cs, Vinyls, or Epoxy	Covering
		ve Displacement	Dynamic Dynamic	Reciprocating
,	This is to certify that I am familiar with the operatic application is true and complete to the best of my kinds.	ons concerning this eq nowledge. This form	ipment and that the inform	nation provided on this nut before it will be processed.
		npany Official: _	Jeff of	folly
	Mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Title: <u>C</u>	CEO -Signa	шш Б
		Date: 1	/27/2025	
		Do not write below th	is line.	
	Engineer Approval Permit Number:			
	Special Notations:			

EP.005

#### PROCESS EQUIPMENT APPLICATION

1.	Name of Company (as s	shown on Lin	e 1, Form E00	)1): <u>Hollir</u>	gshead Materials, LI	.c	
2.	Equipment Name (as sh	nown on Line	10, Form E00	1): <u>DCL</u>	CFM470 Filter Modu	ıle	
3.	Installation Date: 11/1/2	4	4. Тур	e of Proc	ess:Loading Spout		
5.	Major Raw Materials Us	sed: Dry Cem	ent Powder				
6.	Process Weight:This is		00 at maximum t of all materials in		Poul o the process.	nds pe	er hour
7.	Control Equipment						
	Emissions Uncontro	olled		Bag	house (File Form E	102)	
	☐ Wet Collecting Devi	ce (File Form	n E103)	☐ Iner	tial Separators (File	Form	n E105)
	Electrostatic Precipi	itator (File Fo	orm E104)	<b>✓</b> Oth	er – Specify: Load	ing Sp	out
8.	Control Efficiency						
	Enter the control efficiency for zeros if the emissions are unco	each pollutant e ontrolled as note	mitted by this equed in Item 7.	uipment (for a	appropriate Forms E102	, E103,	E104, E105, E107, or enter
	=	Pollu	ıtant		Efficiency		
		Particulates		100.00% @	0.55 Micron & LGR.		
	-	SO <sub>x</sub>					1
		NO <sub>x</sub>					I.
		Hydrocarbons	•				1
	Other:	riyarocarbon	9				
9.	Emissions Summary						
	Enter the amount of each polls	utant listed in po	unds per hour.	7			
	Pollutan		Uncontrolled E (File Form		Actual Emissions (Stack Test Report)		Estimated Emissions (See Formula A)
	Total Suspended	Particulate			0.1006		
	PM10	1			0.1286		
	Sulfur Oxio Nitrogen Oxides					OR	
	Other (spec						<del>-</del>
	Other (spec	on y)					
	Formula A:	Estimate	ed Emissions =	(100%	- Control Efficiency (% 100%	6))	X Uncontrolled Emissions

	cated in Item 9 may at time		D		th Efforts
Odors	Eye Irritations	∐Рі	roperty Dam	age Hea	Ith Effects
Other nuisances outside of plant propert			✓	No environmental dam	age 
Emission Point Data					
_	emission point) above grou on above sea level at stac r:		I &	ne of gas discharged into atm exit temperature:	osphere: 2,000 cf ambient °F
Ave. Operating Time					
Daily: 24	hours	Weekly: 6	Day	Yearly:	52 Weeks
<u> </u>					
This is to certify that	I am familiar with the open best of my knowledge.	ations concerning thi	s equipment ar	d that the information provide	ed on this application is t
This is to certify that	I am familiar with the open best of my knowledge.	ations concerning thi	s equipment ar	d that the information provide	7

1.	Name of Company: Hollingshead Materials, LLC  As shown on Line 1 of Form E001	
2.	Name of Equipment: DCL CFM470 Filter Module  As shown on Line 9 of Form E001	
3.	Equipment Data:  Manufacturer of Baghouse: DCL	
	Model Number: CFM470 Cost of Baghouse: \$26,456	
	Date of Manufacture: 2024 Date of Installation: 11/1/2024	
	Pre-cleaning Equipment No Yes  If yes, what type (File appropriate form for control equipment)	
	Volume of gas discharged from baghouse at dry standard conditions: 2,000 dscfm	
	Total cloth area of baghouse: 470 ft <sup>2</sup>	
	Air to cloth ratio:  4.25:1    Ft   (Divide volume of gas discharged by total cloth area)	
4	Pressure Drop Across Baghouse:	$\neg$
4.	Stated by manufacturer: 3-5 Inches of H <sub>2</sub> O	
	Measured (actual): Inches of H <sub>2</sub> O	
	Calculated: $X = Inches of H_2O$ Air to cloth ratio in ft/min	
	The recommended pressure drop range in inches of H <sub>2</sub> O is 1.5 (minimum) to 8.0 (maximum).	
ū	If the measured or calculated pressure drop falls outside the recommended range, contact the Chattanooga-Hamilton County Air Pollution Control Bureau.	
5.	Filter Data: Type of fabric filters used in baghouse: Polyester	
	Operating temperature: Ambient °F Ambient °F Ambient °F Ambient °F Manufacturer's Normal Maximum °F Maximum	
	If the maximum operating temperature exceeds the recommended operating temperature, contact the Chattanooga-Hamilton County Air Pollution Control Bureau.	
	County Att 1 Ollation Control Darcale.	
6.	Baghouse Components:	
6.		
6.	Baghouse Components: Check all that apply.	
6.	Baghouse Components:  Check all that apply.  Flow rate instrumentation Inlet gas temperature instrumentation Evaporative Cooler	řε
7.	Baghouse Components:  Check all that apply.  Flow rate instrumentation  Inlet gas temperature instrumentation  Evaporative Cooler  Dew point indicator  Differential pressure instrumentation  Other (Describe)	ř:

	Baghouse Description:  Baghouse Inlet (dirty gas):  Bottom Feed  Top Feed
	Exterior Filtration Tangential
	Other (Describe):
	Does the baghouse have a wear-resistant plate? yes no
	Baghouse shape: Rectangular Cubical Cylindrical
	Other (Describe):
	Baghouse volume: 75 Ft <sup>3</sup>
	Baghouse dimensions: $\frac{7.5}{Length}$ Ft $\frac{7.5}{Width}$ Ft $\frac{4.5}{height}$ Ft
	Baghouse shell material: steel
,	
8.	Bag Cleaning: (check one) Fabric Flexing Reverse Air Cleaning
	Mechanical Shaking & Rapping  Reverse Jet
	Sonic Cleaning Reverse Flow
	Collapse Cleaning Manual Cleaning
	Pulse (pressure) – Jet Cleaning
	Tuise (pressure) - set cleaning
9.	Filter Configuration:
	Panels Multiple Tube Bag
	Circular Cross-Section Tube Other (Describe):
	Filter Fabric: Felted Woven Number of Compartments: 1
	Filter Fabric: Felted Woven Number of Compartments: 1  Filter Area: 470  Ft² Number of Filters per Compartment: 10
10	Filter Area: 470 Ft <sup>2</sup> Number of Filters per Compartment: 10
10.	There is no tell in the state of the state o
10.	Filter Area: 470  Ft²  Number of Filters per Compartment: 10  Particle Size Distribution in Microns (µ):  Particle Type(s): Dry Cement Powder  Moisture in gas stream:  Size  0-5µ  5-10µ  10-20µ  20-44µ  Greater than 44µ
10.	Filter Area: 470  Ft²  Number of Filters per Compartment: 10  Particle Size Distribution in Microns (µ):  Particle Type(s): Dry Cement Powder  Moisture in gas stream: %
	Filter Area: 470  Ft²  Number of Filters per Compartment: 10  Particle Size Distribution in Microns (µ):  Particle Type(s): Dry Cement Powder  Size  0-5µ  5-10µ  10-20µ  20-44µ  Greater than 44µ  % by weight  99.99
10.	Filter Area: 470 Ft <sup>2</sup> Number of Filters per Compartment: 10  Particle Size Distribution in Microns (µ): Particle Type(s): Dry Cement Powder Moisture in gas stream: %  Size 0-5µ 5-10µ 10-20µ 20-44µ Greater than 44µ
	Filter Area: 470  Ft²  Number of Filters per Compartment: 10  Particle Size Distribution in Microns (μ):  Particle Type(s): Dry Cement Powder  Size 0-5μ 5-10μ 10-20μ 20-44μ Greater than 44μ % by weight 99.99  Dust Disposal:
	Filter Area: 470 Ft <sup>2</sup> Number of Filters per Compartment: 10  Particle Size Distribution in Microns (µ): Particle Type(s): Dry Cement Powder Moisture in gas stream: %  Size 0-5µ 5-10µ 10-20µ 20-44µ Greater than 44µ % by weight 99.99  Dust Disposal: Automatic (screw conveyor, etc.) Manual (Describe):
	Filter Area: 470 Ft² Number of Filters per Compartment: 10  Particle Size Distribution in Microns (µ): Particle Type(s): Dry Cement Powder Moisture in gas stream: %  Size 0-5µ 5-10µ 10-20µ 20-44µ Greater than 44µ % by weight 99.99  Dust Disposal: Automatic (screw conveyor, etc.) Manual (Describe): How often are hoppers emptied? Every hours

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12.	Control Efficiency:  Manufacturer's Stated Efficiency:  99.95  %
	Required Efficiency: %
	Operational Efficiency (performance testing):
	Size 0-5μ 5-10μ 10-20μ 20-44μ Greater than 44μ
	% by weight   99.95
13.	Fan Data:
	Fan Location:  Clean air side (pull through)  Dirty air side (push through)
	Fan Design (check one – A, B, or C):
	Fan Type: Blade Type:
	A. Centrifugal (radial flow) Forward Curve Backward Curve Straight
	B. Axial-flow (propeller) Propeller Tube Axial Vane Axial
	Fan Properties:
	Diameter:         15         Inches         Braking Horsepower:         7.78         BHP           Speed:         3600         RPM         Inlet Area:         1.0521         Ft²           Volume:         Cfm @ STP         Outlet Area:         0.8689         Ft²           Static Pressure:         9.36         Inches WC         Motor Horsepower:         10         HP
	Standard Heavy Duty Submitted copy of Manufacturer's Yes No Multirating Tables  Special Construction Materials:
	Bronze Alloys Aluminum Stainless Steel Bisonite
	Zinc Chromate Primer Rubber, Phenolics, Vinyls, or Epoxy Covering
	C. Compressor Positive Displacement Dynamic Reciprocating
	This is to certify that I am familiar with the operations concerning this equipment and that the information provided on this application is true and complete to the best of my knowledge. This form must be completely filled out before it will be processed.
	Company Official:
	Mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421
	Date: 1/27/2025
	Do not write below this line.
	Engineer Approval Permit Number:
	Special Notations:

CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300, Chattanooga, TN 37421-6127

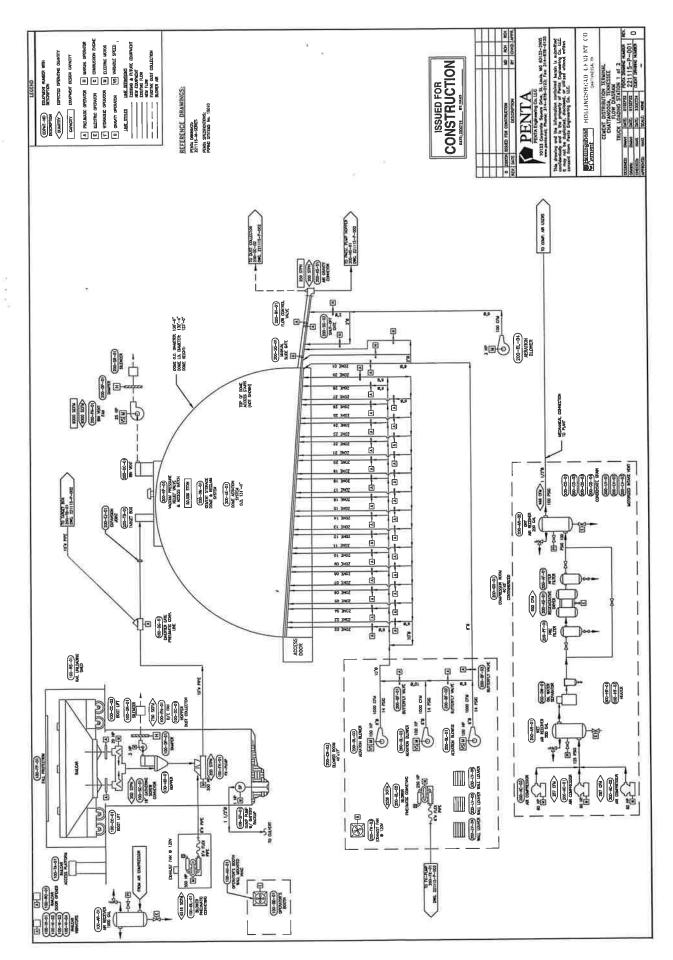
EP-006

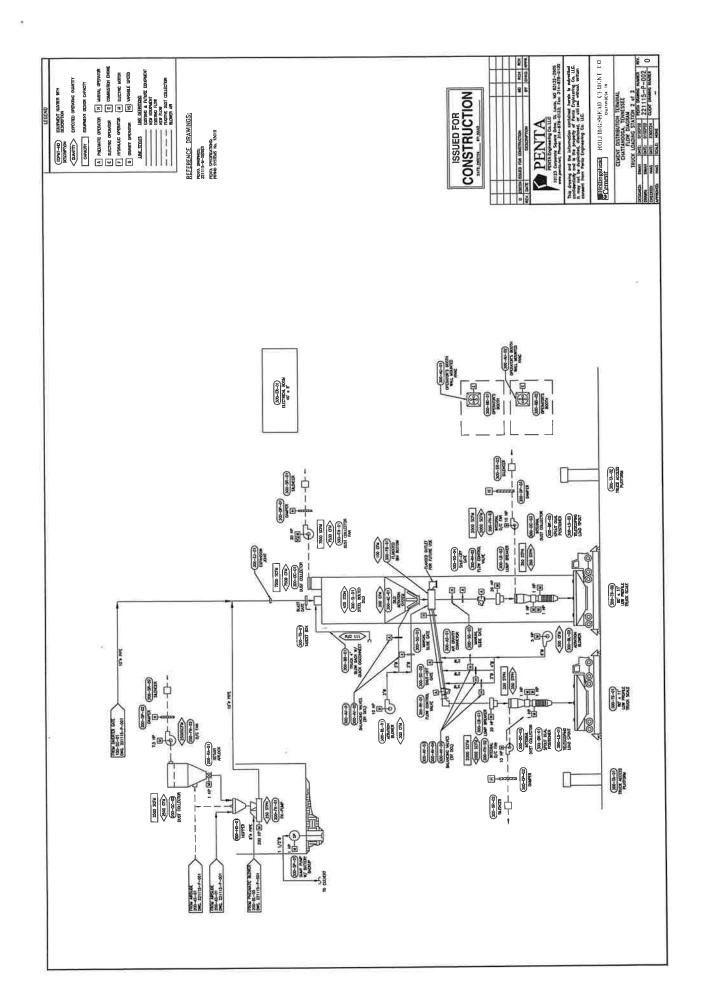
#### PROCESS EQUIPMENT APPLICATION

### A. Type of Process: Loading Spout  ### Major Raw Materials Used: Dry Cement Powder  ### Process Weight: 880,000 at maximum capacity Pounds per hour	Name of Company (as								
### Major Raw Materials Used: Dry Cement Powder    Process Weight:	Equipment Name (as shown on Line 10, Form E001): DCL CFM 470 Filter Module								
Process Weight: 880,000 at maximum capacity This is the total weight of all materials introduced into the process.    Control Equipment	Installation Date: 11/1/24 4. Type of Process: Loading Spout								
This is the total weight of all materials introduced into the process.    Control Equipment	Major Raw Materials U	sed: Dry Ceme	ent Powder						
Emissions Uncontrolled						nds pe	er hour		
Wet Collecting Device (File Form E103) Inertial Separators (File Form E105)  Electrostatic Precipitator (File Form E104) Other – Specify: Loading Spout  Control Efficiency  Enter the control efficiency for each pollutant emitted by this equipment (for appropriate Forms E102, E103, E104, E105, E107, zeros if the emissions are uncontrolled as noted in Item 7.  Pollutant % Efficiency Particulates 100.00% @0.55 Micron & LGR. SO <sub>x</sub> NO <sub>x</sub> CO Hydrocarbons Other:  Emissions Summary  Enter the amount of each pollutant listed in pounds per hour.  Pollutant Uncontrolled Emissions (Stack Test Report) Total Suspended Particulate PM10 Sulfur Oxides Nitrogen Oxides (as NO <sub>2</sub> ) OR	Control Equipment								
Enter the control efficiency  Enter the control efficiency for each pollutant emitted by this equipment (for appropriate Forms E102, E103, E104, E105, E107, zeros if the emissions are uncontrolled as noted in Item 7.  Pollutant	☐Emissions Uncontro	oiled		Bag	house (File Form E	102)			
Enter the control efficiency for each pollutant emitted by this equipment (for appropriate Forms E102, E103, E104, E105, E107, zeros if the emissions are uncontrolled as noted in Item 7.  Pollutant	☐Wet Collecting Dev	ice (File Form	n E103)	□iner	tial Separators (File	e Form	n E105)		
Enter the control efficiency for each pollutant emitted by this equipment (for appropriate Forms E102, E103, E104, E105, E107, zeros if the emissions are uncontrolled as noted in item 7.  Pollutant	Electrostatic Precip	itator (File Fo	m E104)	<b>✓</b> Oth	er – Specify: Load	ing Sp	out		
Enter the control efficiency for each pollutant emitted by this equipment (for appropriate Forms E102, E103, E104, E105, E107, zeros if the emissions are uncontrolled as noted in Item 7.  Pollutant	Control Efficiency								
Particulates 100.00% @0.55 Micron & LGR.  SO <sub>x</sub> NO <sub>x</sub> CO Hydrocarbons  Other:    Emissions   Summary	Enter the control efficiency for			uipment (for a	appropriate Forms E102	2, E103,	E104, E105, E107, or enter		
Particulates 100.00% @0.55 Micron & LGR.  SO <sub>x</sub> NO <sub>x</sub> CO Hydrocarbons  Other:    Emissions   Summary		Pollu	tant	%	Efficiency				
NO <sub>x</sub> CO Hydrocarbons  Other:  Emissions Summary  Enter the amount of each pollutant listed in pounds per hour.  Pollutant Pollutant (File Form E106) Total Suspended Particulate PM10 Sulfur Oxides Nitrogen Oxides (as NO <sub>2</sub> )  Note	9 <del>-</del>								
CO Hydrocarbons Other:    Emissions   Summary	) <del>.</del>	SO <sub>x</sub>							
Hydrocarbons Other:    Hydrocarbons		NO <sub>x</sub>							
Emissions Summary  Enter the amount of each pollutant listed in pounds per hour.  Pollutant Pollutant (File Form E106) Total Suspended Particulate PM10 Sulfur Oxides Nitrogen Oxides (as NO2)  Personant Summary  Controlled Emissions (Stack Test Report) (See Formula Stack Test Report)  OR  OR		CO							
Emissions Summary  Enter the amount of each pollutant listed in pounds per hour.  Pollutant  Pollutant  (File Form E106)  Total Suspended Particulate  PM10  Sulfur Oxides  Nitrogen Oxides (as NO2)  Nitrogen Oxides (as NO2)	-	Hydrocarbons	3						
Enter the amount of each pollutant listed in pounds per hour.    Pollutant   Uncontrolled Emissions (Stack Test Report)     Total Suspended Particulate   PM10   0.1286     Sulfur Oxides   Nitrogen Oxides (as NO2)   OR	Other:					N.			
Enter the amount of each pollutant listed in pounds per hour.    Pollutant	Emissions								
Pollutant (File Form E106) Actual Emissions (Stack Test Report)  Total Suspended Particulate  PM10 Sulfur Oxides Nitrogen Oxides (as NO2)  Uncontrolled Emissions (Stack Test Report)  Oxides Oxides Oxides Oxides	Summary								
Pollutant (File Form E106) (Stack Test Report)  Total Suspended Particulate  PM10 0.1286  Sulfur Oxides Nitrogen Oxides (as NO2)	Enter the amount of each poll	utant listed in po	unds per hour.						
PM10         0.1286           Sulfur Oxides         OR           Nitrogen Oxides (as NO₂)         OR							Estimated Emissions (See Formula A)		
Sulfur Oxides Nitrogen Oxides (as NO <sub>2</sub> ) OR	Total Suspended	Particulate							
Nitrogen Oxides (as NO <sub>2</sub> )	PM10				0.1286				
Nitrogen Oxides (as NO <sub>2</sub> )	Sulfur Oxi	des				OP			
Other (specify)	Nitrogen Oxides	(as NO <sub>2</sub> )				J OK			
Formula A: (100% - Control Efficiency (%))					0				

Environmental Impact					
Those emissions indicated in	ı Item 9 may at times under	normal operating c	onditions cause (chec	k all that apply):	
Odors	Eye Irritations	Property	/ Damage	Health Effec	ts
Other nuisances of	outside of plant propert	у	✓ No enviror	mental damage	
Emission Point Data					
Stack Height (emission Ground Elevation abov Stack Diameter:	n point) above ground: ve sea level at stack base:	29.0 Ft. 655 Ft. 1'5/8" Ft.	Volume of gas disc Gas exit temperatu	harged into atmosphere: re:	2,000 cfm ambient °F
Ave. Operating Time	ŷ.			Yi	3
Daily: 24	hours Weekly	y: <u>6</u>	Days	Yearly: 52	_ Weeks
This is to certify that I am far and complete to the best of	miliar with the operations comy knowledge.	ncerning this equip	ment and that the info	ormation provided on this	application is true
			_Jeff	Company Official	
			CEO	Title	

. (m)		
		,





	tn/yr	0.2253	2.5341	0.7039	2.1118	0.5631	0.5631	
	lbs/yr	450.5138	068.2806	407.8557	4,223.5672	126.2846	1,126.2846	
PIMIO	lbs/day	1.2343	13.8857 5,0	3.8571 1,	11.5714 4,	3.0857 1.	3.0857 1,	
	lbs/hr	0.0514	0.5786	0.1607	0.4821	0.1286	0.1286	
1	lbs/min	600000	9600.0	0.0027	0.0080	0.0021	0.0021	
ĺ	gr/min	0.9	67.5	18.8	56.3	15.0	15.0	
	gr/cf				0.0075			
	Stack Height above grade	4.3	135.5	16.5	86.0	29.0	29.0	
	Grade Elevation	099	658	658	655	655	655	
	Nonstack Emission Point Elevation	655.75	793.5	674.5	741	684	684	
	Stack Velocity ft/sec	22	88	45	83	41	41	
	SCFM	800	9,000	2,500	7,500	2,000	2,000	
	ACFM	855	9,617	2,671	8,014	2,137	2,137	
	Exhaust Temp	ambient	ambient	ambient	ambient	ambient	ambient	
	Exhaust Diameter	0.5643	1.8811	1.1287	1.6930	1.0521	1.0521	
	Exhaust Size Square Feet	0.2500	2.7778	1.0000	2.2500	0.8689	0.8689	
	exit size	6" SQ.	1'-8" SO.	1,50.	1'-6" SQ.	Ø1'-5/8"	Ø1'-5/8"	
	Emission Point	EP-001	EP-002	EP-003	EP-004	EP-005	EP-006	

Operational Assumptions:
hours per day:
days per year:
hours per year:

SCFM to ACFM

29.92 28.52 70 520 Standard absolut
Actual pressure
Actual temp.
Standard temp.

mg/Nm3: milligram per normal meter cubed; Based on the Ideal Gas Law, this is a standard unit, such as a stardard cubic foot.

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0.00218	tı
grains	<u></u>
0.077162 grains	35.3147
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grains	E S
0.015432	
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pound year day

per per

7000 grains 8760 hours 24 hours

					PM10
Equipment #	Description	Emission Description	Emission Point	SCFM	tn/yr
100-DC-01	Filter Cell #1	Rail Pit Dust Collector	EP-001	800	0.23
200-DC-01	Filter Cell #2	Dome Dust Collector	EP-002	9,000	2.53
200-DC-02	Filter Cell #3	Dust Collector	EP-003	2,500	0.70
300-DC-01	Filter Cell #4	Bin Vent	EP-004	7,500	2.11
300-DC-02	Filter Cell #5	Loading Spout	EP-005	2,000	0.56
300-DC-03	Filter Cell #6	Loading Spout	EP-006	2,000	0.56
					6.70

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