Division of Air Quality Permit Application Submittal

Please find attached a permit application for :

[Company Name; Facility Location]

- DAQ Facility ID (for existing facilities only):
- Current 45CSR13 and 45CSR30 (Title V) permits associated with this process (for existing facilities only):
- Type of NSR Application (check all that apply):
 - Construction
 - Modification
 - Class I Administrative Update
 - Class II Administrative Update
 - Relocation
 - Temporary
 - Permit Determination

- Type of 45CSR30 (TITLE V) Revision (if any)**:
 - Title V Initial
 - Title V Renewal
 - Administrative Update
 - Minor Modification
 - Significant Modification
 - Off Permit Change
- **If any box above is checked, include the Title V revision information as ATTACHMENT S to this application.

- Payment Type:
 - Credit Card (Instructions to pay by credit card will be sent in the Application Status email.)
 - Check (Make checks payable to: WVDEP Division of Air Quality)
 Mail checks to:

WVDEP – DAQ – Permitting Attn: NSR Permitting Secretary 601 57th Street, SE

Charleston, WV 25304

Please wait until DAQ emails you the Facility ID Number and Permit Application Number. Please add these identifiers to your check or cover letter with your check.

- If the permit writer has any questions, please contact (all that apply):
 - Responsible Official/Authorized Representative
 - Name:
 - Email:
 - Phone Number:
 - Company Contact
 - Name:
 - Email:
 - Phone Number:
 - Consultant
 - Name:
 - Email:
 - Phone Number:

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APPLICATION

WEST VIRGINIA DEPARTMENT OF **ENVIRONMENTAL PROTECTION**

DIVISION OF AIR QUALITY

APPLICATION FOR NSR PERMIT **AND**

Charleston, WV 25304 (304) 926-0475 www.dep.wv.gov/dag	TI	TITLE V PERMIT REVISION (OPTIONAL)				
PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNO ☐ CONSTRUCTION ☐ MODIFICATION ☐ RELOCATION ☐ CLASS I ADMINISTRATIVE UPDATE ☐ TEMPORARY ☐ CLASS II ADMINISTRATIVE UPDATE ☐ AFTER-THE-FAI FOR TITLE V FACILITIES ONLY: Please refer to "Title V R	☐ ADMINISTRA ☐ SIGNIFICANT CT IF ANY BOX ABOUNT OF THE PROPRESSION AS A BOUNT OF THE PROPRESSI	PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY): ADMINISTRATIVE AMENDMENT MINOR MODIFICATION SIGNIFICANT MODIFICATION IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION				
(Appendix A, "Title V Permit Revision Flowchart") and ab	pility to operate with the	changes requ	ested in this Permit Ap	oplication.		
Name of applicant (as registered with the WV Secretary)	of State's Office):	2. Federal	Employer ID No. <i>(FE</i>	IN):		
REO Processing Inc.			81-4277734			
3. Name of facility (if different from above):		4. The applic	cant is the:	⊠ вотн		
5A. Applicant's mailing address: 221 Industrial Park Rd, Parkersburg, WV, 26104						
West Virginia Business Registration. Is the applicant a If YES, provide a copy of the Certificate of Incorporate change amendments or other Business Registration Ce If NO, provide a copy of the Certificate of Authority/Au amendments or other Business Certificate as Attachments	ion/Organization/Limi ertificate as Attachmen uthority of L.L.C./Reg	ted Partners t A.	hip (one page) includ			
7. If applicant is a subsidiary corporation, please provide the	e name of parent corpo	ration:				
8. Does the applicant own, lease, have an option to buy or otherwise have control of the <i>proposed site?</i> ☑ YES □ NO - If YES, please explain: Own - If NO, you are not eligible for a permit for this source.						
 Type of plant or facility (stationary source) to be constructed, modified, relocated, administratively updated or temporarily permitted (e.g., coal preparation plant, primary crusher, etc.): Modification to permit 13-3614 to include Dust Control Plan, truck loading process changes (hood, massager, and vibrator), and fan filters. North American Industry Classification System (NAICS) code for the facility: 493110 						
11A. DAQ Plant ID No. (for existing facilities only): 0 1 1 - 0 0 2 4 1 11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only):						
All of the required forms and additional information can be for	und under the Permitting	Section of D	AQ's website, or reque	ested by phone.		

12A.					
 For Modifications, Administrative Updates or Te present location of the facility from the nearest stat 		please provide directions to the			
For Construction or Relocation permits, please proad. Include a MAP as Attachment B.	provide directions to the <i>proposed new</i> s	site location from the nearest state			
Located approximately 530 feet south of the Ohio River,	on the east side of 26th Street and north	n of Guyan Avenue.			
12.B. New site address (if applicable):	12C. Nearest city or town:	12D. County:			
, ,,	Huntington	Cabell			
12.E. UTM Northing (KM): 4253322.1343248	12F. UTM Easting (KM): 373842.353341909	12G. UTM Zone: 17			
13. Briefly describe the proposed change(s) at the facili	•				
To Permit the repackaging of Activated Carbon. Permit I and fan filters.	modification will include Dust Control Pla	in, truck loading process changes,			
	0.4/4.4/0.00.4	T			
 14A. Provide the date of anticipated installation or chan If this is an After-The-Fact permit application, prov 	~	14B. Date of anticipated Start-Up if a permit is granted:			
change did happen: / /		04/11 /2024			
14C. Provide a Schedule of the planned Installation of application as Attachment C (if more than one unit		units proposed in this permit			
15. Provide maximum projected Operating Schedule of Hours Per Day 12 Days Per Week 6	of activity/activities outlined in this application Weeks Per Year 52	ation:			
16. Is demolition or physical renovation at an existing fa	cility involved?				
17. Risk Management Plans. If this facility is subject to	112(r) of the 1990 CAAA, or will become	ne subject due to proposed			
changes (for applicability help see www.epa.gov/cep	po), submit your Risk Management Pla	n (RMP) to U. S. EPA Region III.			
18. Regulatory Discussion. List all Federal and State air pollution control regulations that you believe are applicable to the					
proposed process (if known). A list of possible application	proposed process (if known). A list of possible applicable requirements is also included in Attachment S of this application				
(Title V Permit Revision Information). Discuss applica	ability and proposed demonstration(s) of	compliance (if known). Provide this			
information as Attachment D.					
Section II. Additional att	achments and supporting d	ocuments.			
19. Include a check payable to WVDEP – Division of Air	Quality with the appropriate application	n fee (per 45CSR22 and			
45CSR13).					
20. Include a Table of Contents as the first page of you					
21. Provide a Plot Plan , e.g. scaled map(s) and/or sket source(s) is or is to be located as Attachment E (R		erty on which the stationary			
 Indicate the location of the nearest occupied structure 					
22. Provide a Detailed Process Flow Diagram(s) showing each proposed or modified emissions unit, emission point and control device as Attachment F.					
23. Provide a Process Description as Attachment G.					
Also describe and quantify to the extent possible	all changes made to the facility since the	e last permit review (if applicable).			
All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.					

	Provide Material Safety Data Sheets (MSDS) for all materials process	•			
	For chemical processes, provide a MSDS for each compound emitted to	the air.			
	5. Fill out the Emission Units Table and provide it as Attachment I.				
	5. Fill out the Emission Points Data Summary Sheet (Table 1 and Tab				
	7. Fill out the Fugitive Emissions Data Summary Sheet and provide it a	s Attachment K.			
	3. Check all applicable Emissions Unit Data Sheets listed below:				
	Bulk Liquid Transfer Operations	☐ Quarry			
	Chemical Processes	☐ Solid Materials Sizing, Handling and Storage Facilities			
	Concrete Batch Plant Incinerator	☐ Storage Tanks			
	Grey Iron and Steel Foundry Indirect Heat Exchanger	☐ Storage Tanks			
	General Emission Unit, specify Bulk truck loading, Unloading, Bagging Sading, and other fugitives	Station, railcar loading/unloading, open dump truck			
Fill	Il out and provide the Emissions Unit Data Sheet(s) as Attachment L.				
29.	Check all applicable Air Pollution Control Device Sheets listed below	v:			
	Absorption Systems 🖂 Baghouse	☐ Flare			
	Adsorption Systems	☐ Mechanical Collector			
	Afterburner	or Wet Collecting System			
\boxtimes	Other Collectors, specify Fan Filters				
Fill	ll out and provide the Air Pollution Control Device Sheet(s) as Attachn	nent M.			
30.	 Provide all Supporting Emissions Calculations as Attachment N, or Items 28 through 31. 	attach the calculations directly to the forms listed in			
31.	31. Monitoring, Recordkeeping, Reporting and Testing Plans. Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as Attachment O.				
>	Please be aware that all permits must be practically enforceable wheth measures. Additionally, the DAQ may not be able to accept all measure proposed by the applicant, DAQ will develop such plans and include	es proposed by the applicant. If none of these plans			
32.	P. Public Notice. At the time that the application is submitted, place a C	lass I Legal Advertisement in a newspaper of general			
	circulation in the area where the source is or will be located (See 45CS	R§13-8.3 through 45CSR§13-8.5 and <i>Example Legal</i>			
	Advertisement for details). Please submit the Affidavit of Publication	n as Attachment P immediately upon receipt.			
33.	3. Business Confidentiality Claims. Does this application include confi	dential information (per 45CSR31)?			
>	If YES, identify each segment of information on each page that is subm segment claimed confidential, including the criteria under 45CSR§31-4 Notice – Claims of Confidentiality" guidance found in the General In	.1, and in accordance with the DAQ's "Precautionary			
	Section III. Certification o	f Information			
34.	Authority/Delegation of Authority. Only required when someone oth Check applicable Authority Form below:	er than the responsible official signs the application.			
	Authority of Corporation or Other Business Entity	Authority of Partnership			
	Authority of Governmental Agency	Authority of Limited Partnership			
	ubmit completed and signed Authority Form as Attachment R.				
	Il of the required forms and additional information can be found under the Pe	ermitting Section of DAQ's website, or requested by phone.			

35A. Certification of Information. To certify 2.28) or Authorized Representative shall check		ficial (per 45CSR§13-2.22 and 45CSR§30-				
Certification of Truth, Accuracy, and Completeness						
I, the undersigned Responsible Official / [application and any supporting documents appreasonable inquiry I further agree to assume restationary source described herein in accordar Environmental Protection, Division of Air Qualicand regulations of the West Virginia Division of business or agency changes its Responsible Conotified in writing within 30 days of the official of the support of the support of the official of the support	pended hereto, is true, accurate, and comesponsibility for the construction, modificance with this application and any amendment by permit issued in accordance with this aff Air Quality and W.Va. Code § 22-5-1 et Official or Authorized Representative, the	plete based on information and belief after tion and/or relocation and operation of the ents thereto, as well as the Department of pplication, along with all applicable rules seq. (State Air Pollution Control Act). If the				
Compliance Certification Except for requirements identified in the Title \(\) that, based on information and belief formed a compliance with all applicable requirements. SIGNATURE \(\) (Please	/ Application for which compliance is not a fter reasonable inquiry, all air contaminan	pachieved, I, the undersigned hereby certify t sources identified in this application are in DATE: 3/28/2024				
35B. Printed name of signee: Gregg Frazier		35C. Title: President				
35D. E-mail:	36E. Phone: 937-545-8521	36F. FAX:				
gregg.frazier@reoprocessing.com						
36A. Printed name of contact person (if differe	ent from above):	36B. Title:				
36C. E-mail:	36D. Phone:	36E. FAX:				
PLEASE CHECK ALL APPLICABLE ATTACHMEN Attachment A: Business Certificate Attachment B: Map(s) Attachment C: Installation and Start Up Schell Attachment D: Regulatory Discussion Attachment E: Plot Plan Attachment F: Detailed Process Flow Diagram Attachment G: Process Description Attachment H: Material Safety Data Sheets (III) Attachment I: Emission Units Table Attachment J: Emission Points Data Summa Please mail an original and three (3) copies of the address listed on the first	Attachment K: Fugitive Attachment L: Emission Attachment M: Air Poll Attachment M: Suppor Attachment O: Monitor M(s) Attachment P: Public N Attachment Q: Businer Attachment R: Authori Attachment S: Title V F Try Sheet Attachment Fee	Emissions Data Summary Sheet ins Unit Data Sheet(s) ution Control Device Sheet(s) ting Emissions Calculations ring/Recordkeeping/Reporting/Testing Plans lotice ss Confidential Claims ty Forms Permit Revision Information				
For AGENCY USE ONLY – IF THIS IS A TITLE \ Forward 1 copy of the application to the Title For Title V Administrative Amendments: NSR permit writer should notify Title For Title V Minor Modifications: Title V permit writer should send app NSR permit writer should notify Title For Title V Significant Modifications process NSR permit writer should notify a Title Public notice should reference both EPA has 45 day review period of a dr	e V Permitting Group and: V permit writer of draft permit, ropriate notification to EPA and affected sta V permit writer of draft permit. ed in parallel with NSR Permit revision: le V permit writer of draft permit, 45CSR13 and Title V permits, aft permit.					

ATTACHMENT A

Prate of Mest Mirginia

Christian

As Secretary of State of the State of West Virginia, I hereby certify that

by the provisions of the West Virginia Code, Articles of Merger were received and filed,

Merging REO PROCESSING WEST VIRGINIA, INC. a West Virginia Corporation, REO PROCESSING LOUISIANA, INC., a West Virginia Corporation, REO PROCESSING TEXAS, INC. a West Virginia Corporation, ALLIED PROCESSING SERVICES, INC. a West Virginia Corporation, ALLIED LOGISTICS COMPANY a West Virginia Corporation with and into, REO PROCESSING, INC. a West Virginia Corporation, the survivor, with future effective date of December 31, 2018.

Therefore, I hereby issue this

CERTIFICATE OF MERGER



Given under my hand and the Great Seal of the State of West Virginia on this day of

Mac Warner

Secretary of State

FILED

DEC 28 2018

ARTICLES OF MERGER

REO PROCESSING WEST VIRGINIA, INC., REO PROCESSING LOUISIANA, INC., REO PROCESSING TEXAS, INC., ALLIED PROCESSING SERVICES, INC., and ALLIED LOGISTICS COMPANY with and into

REO PROCESSING, INC.

IN THE OFFICE OF SECRETARY OF STATE

Pursuant to the provisions of West Virginia Code § 31D-11-1106, the undersigned entities (the "Partles") hereby adopt the following Articles of Merger for the purpose of merging REO PROCESSING WEST VIRGINIA, a West Virginia corporation, REO PROCESSING LOUISIANA, INC., a West Virginia corporation, REO PROCESSING TEXAS, INC., a West Virginia corporation, ALLIED PROCESSING SERVICES, INC., a West Virginia corporation, and ALLIED LOGISTICS COMPANY, a West Virginia corporation, with and into REO PROCESSING, INC., a West Virginia corporation (the "Surviving Corporation"), which shall be the surviving entity in the merger (the "Merger").

- 1. Names and Jurisdiction. The names and jurisdiction of incorporation of each of the Parties to the Merger are REO PROCESSING WEST VIRGINIA, INC., a West Virginia corporation; REO PROCESSING LOUISIANA, INC., a West Virginia corporation; REO PROCESSING TEXAS, INC., a West Virginia corporation; ALLIED PROCESSING SERVICES, INC., a West Virginia corporation; ALLIED LOGISTICS COMPANY, a West Virginia corporation; and REO PROCESSING, INC., a West Virginia corporation. For clarification purposes, REO PROCESSING WEST VIRGINIA, INC., REO PROCESSING LOUISIANA, INC. and REO PROCESSING TEXAS, INC. are wholly owned subsidiaries of the Surviving Corporation.
- 2. Effective Date. The effective date and time of the Merger for tax and accounting purposes only shall be December 31, 2018 at 11:59 p.m. EST.
- 3. Approval of Plan of Merger. The Parties hereby certify that on December 18, 2018, the Plan of Merger, attached hereto as Exhibit A, and the performance of its terms as set forth therein, were approved and adopted by each of the Parties' respective shareholders upon the recommendation of the Parties' respective board of directors, in accordance with the terms of the Plan of Merger, W.Va. Code § 31D-11-1104 and by each of the Parties' Articles of Incorporation or other organizational or governing documents.
- 4. Name and Address of Surviving Corporation. The name and address of the Surviving Corporation is REO PROCESSING, INC., a West Virginia corporation, whose principal office address is 20 26th St., Huntington, WV 25703.

481834

PLAN OF MERGER

THIS PLAN OF MERGER (the "Plan") is by and among REO PROCESSING WEST VIRGINIA, a West Virginia corporation ("RPW"), REO PROCESSING LOUISIANA, INC., a West Virginia corporation ("RPL"), REO PROCESSING TEXAS, INC., a West Virginia corporation ("RPT"), ALLIED PROCESSING SERVICES, INC., a West Virginia corporation ("APS"), ALLIED LOGISTICS COMPANY, a West Virginia corporation ("ALC"), and REO PROCESSING, INC., a West Virginia corporation ("RPI" and together with RPW, RPL, PRT, APS, and ALC, the "Partles").

WHEREAS, RPW, RPL and RPT are wholly owned subsidiaries of RPI.

WHEREAS, the board of directors of RPI, APS and ALC believe that the merger of RPW, RPL, RPT, APS and ALC with and into RPI would be in the best interests of the parties and its shareholders.

WHEREAS, the board of directors of RPI, APS and ALC desire to recommend that the shareholders of RPI, APS and ALC approve the Plan in accordance with the terms set forth herein.

WHEREAS, the board of directors of RPI, APS and ALC conditioned its submission of the Plan to its shareholders on the basis that the Plan's approval and the consummation of the proposed merger is contingent on none of the shareholders of APS and ALC properly dissenting to the Merger under West Virginia law.

NOW, THEREFORE, in consideration of the premises contained herein, the Plan shall be as follows:

- Merger. Upon the terms and subject to the conditions set forth herein, RPW, RPL, RPT, APS and ALC shall be merged with and into RPI in accordance with the terms of and subject to the conditions set forth herein and West Virginia law (the "Merger"). Following the Merger, RPI shall continue as the surviving corporation in the Merger and the separate corporate existence of RPW, RPL, RPT, APS and ALC shall terminate.
- No Dissenting Shareholders. The parties' obligation to consummate the Merger is subject to the condition that no shareholders of APS and ALC shall have properly dissented to the Merger under West Virginia law.
- Consent of Lender. The parties' obligation to consummate the Merger is subject
 to the condition that the Parties obtain the consent of their lender, Branch Banking and Trust
 Company, to the Merger.
- 4. Articles of Merger. As part of the Merger, the officers of each corporation shall cause properly executed Articles of Merger meeting the requirements of applicable West Virginia law (the "Articles of Merger") to be filed with the Office of the West Virginia Secretary of State in accordance with West Virginia law.

- Closing. The closing of the transaction contemplated herein (the "Closing") shall occur on or before December 31, 2018. The effective date and time of the Merger for tax and accounting purposes shall be December 31, 2018 at 11:59 p.m. EST.
- 6. Effects of the Merger. In addition to the effects of the Merger provided by applicable state law, upon filing the Articles of Merger, all property, rights, privileges, immunities, powers and franchises of RPW, RPL, RPT, APS and ALC shall vest in RPI, and all debts, liabilities, obligations and duties of RPW, RPL, RPT, APS and ALC shall become the debts, liabilities, obligations and duties of RPI. Pursuant to applicable state law, RPW, RPL, RPT, APS and ALC shall cease to exist. The Articles of Incorporation and Bylaws of RPI, as they exist on the date of Closing, shall continue unaltered as the Articles of Incorporation and Bylaws of RPI.
- Cancellation of Subsidiary Shares. As of the Closing, all issued and outstanding capital stock of RPW, RPL and RPT immediately prior to Closing shall no longer be outstanding and shall automatically be cancelled and shall cease to exist.
- 8. Conversion of APS and ALC Shares. As of the Closing, all issued and outstanding capital stock of APS and ALC immediately prior to Closing shall no longer be outstanding and shall automatically be converted into shares of RPI in the following manner:
- (a) Each share of common stock of APS and ALC outstanding on the effective date of the Merger shall thereupon, without further action, be converted into the number of shares of common stock of RPI in accordance with the conversion schedule attached hereto at Exhibit A.
- (b) On or after the effective date of the Merger, the holders of outstanding stock certificates representing stock of APS and ALC shall be surrendered to the officers of RPI and RPI will cause to be issued new stock certificates to such holders representing the appropriate shares of common stock of RPI vested in such holders.
 - 9. Consideration. No consideration will be paid.
- 10. Governing Law. This Agreement is executed and delivered in, and shall be governed by and construed in accordance with, the laws of the State of West Virginia without giving effect to any conflict of law rule or principle that might require the application of the laws of another jurisdiction.
- 11. Entire Agreement. This Agreement embodies the entire agreement and understanding of the Parties hereto with respect to the subject matter herein contained, and supersedes all prior agreements, correspondence, arrangements and understandings relating to the subject matter hereof. This Agreement may be amended, modified, superseded or canceled only by a written instrument signed by all of the Parties hereto, and any of the terms, provisions and conditions hereof may be waived only by a written instrument signed by the waiving Party.

ATTACHMENT B

Attachment B



Address: 20 26th ST Huntington WV, 25703

Directions:

WV-2 to the east becomes Highway 60/3rd Ave. Turn right on 26th St. Facility is 0.3 mile on right.

ATTACHMENT E

Attachment E – Plot Plan

REO Processing

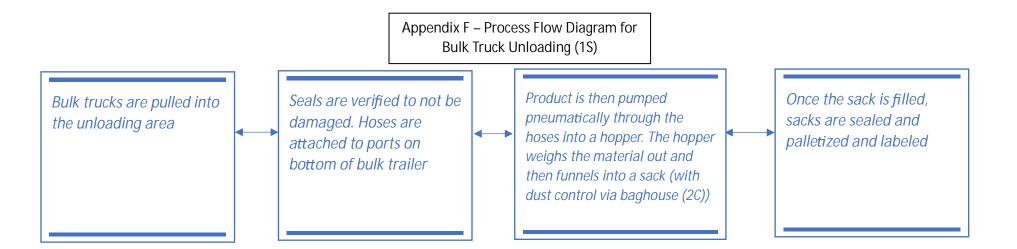
20 26th St Huntington, WV 25703



UTM-Northing (KM): 4253322.1343248 UTM-Easting (KM): 373842.353341909

Elevation: 550-580 feet

ATTACHMENT F, G



Appendix G - Process Description for Bulk Truck Unloading (1S)

The size of the customer order will depend on how much material is available for unloading. The trailer is positioned to access the ports with pneumatic pumps. Seals are verified, hoses are attached, and the pumps are activated. The material is pulled from inside the bulk truck to a funnel shaped hopper just inside the building. The machine weighs the material to a designated weight and then releases the material into the super sack that is attached to the neck of the funnel hopper. Once the sack is filled, the operator seals the sack, labels it, and sets it aside until to order is complete. The filled sacks are then warehoused until the customer requests them. Dust collection is in place at the sack fill station via baghouse (2C).

Bulk Tanker Truck Loading (2S) The bottom of the sack is then Sacks are verified to be for the A sack is massaged on the Sacks are staged by bulk opened, and material is ground and then picked up via correct batch. The hose for the truck filling area, under a transferred into the bulk trailer baghouse (1C) is attached to forklift and brought over the hood with an attached through a large funnel with a ports on the trailer and a funnel bulk trailer opening on top of baghouse (1C) and nearby vibrator. Once complete, sack is is placed on top of the trailer trailer dust netting retied and discarded

APPENDIX F – Process Flow Diagram for

APPENDIX G - Process Description for Bulk Tanker Truck Loading (2S)

The size of the customer order will depend on how much material is staged for loading. This can be in 1,000 or 2,000-lb sacks. Sacks are verified to be used for the correct batches in the bulk truck filling area, under a hood with an attached baghouse and nearby dust netting. A funnel is placed on the bulk truck trailer filling ports on top of the trailer. The hose for the baghouse dust collector (1C) is attached to a cover that is sealed to the hatch on top of the trailer.

Once sacks are verified as correct for the correct batch, the sacks are massaged on the ground with a bag massager and then picked up with a forklift by the lifting ears and brought over and centered above the funnel placed on top of the trailer.

Once centered correctly, an employee then opens the bottom of the sack to allow the material to empty into the bulk trailer through the funnel with a vibrator to assist with flow.

Once the bag is opened and material is flowing, the bottom of the sack is lowered down into the funnel to reduce dust escaping. Once the sack is empty, the spout is then re-tied to prevent carbon from coming out of the sack when removing from the funnel. The forklift driver then returns, and the employee removes the empty sack to discard. The forklift driver repeats until all sacks are emptied into the trailer.

Once all is completed, the funnel is removed, and the trailer fill ports are closed, and the truck is verified for cleanliness.

This process is performed outdoors, under a hood connected to a baghouse (1C) to prevent emissions. Dust netting is also installed in the breezeway between buildings to prevent dust from escaping the area.

Appendix F – Process Flow Diagram for Small Bagging (3S) Sacks are then raised and Once the bagger hopper is The material in the tote is Material in 1.000 or 2.000-lb loaded, the material flows sacks (depending on the centered over a tote bin, then placed above the directly into the bags. These customer order) are staged bagger and the valve is using a forklift, and untied bags are sealed, palletized, and verified to be the correct and transferred into the opened allowing the material and set aside for inspection batches. Dust collection, via tote bin to fill the bagger hopper baghouse (1C), is in use at bag filling station

Appendix G - Process Description for Small Bagging (3S)

Material is staged and verified to be correct. Once verified, the 1,000 or 2,000-lb sacks (depending on customer order) are then transferred into a tote bin. Once tote is loaded, the tote is then raised above the bagger and placed on a stand. The operator will then open the valve on the bottom of the tote and the material will flow into the bagger hopper.

When the bagger hopper is loaded the operator then places a bag over the spout and actuates the filler. The machine fills the bags to the correct weight and then the bags are sealed and palletized. Once a full pallet is completed, the pallet is set aside for inspection. Dust collection is in use at the bag filling station via baghouse (1C).

Appendix F – Process Flow Diagram for Railcar Loading/Unloading (4S) Once the sack is filled, Seals are verified to not be Product is then pumped Railcars pull into the sacks are sealed and pneumatically through the damaged. Hoses are railcar loading/unloading hoses into a hopper. The palletized and labeled attached to ports on area hopper weighs the material bottom of railcar. Dust out and then funnels into a control is in place via baghouse (2C) sack

Appendix G - Process Description for Railcar Loading/Unloading (4S)

The size of the customer order will depend on how much material is available for unloading. The rail car is positioned to access the ports with pneumatic pumps. Seals are verified, hoses are attached, and the pumps are activated. The material is pulled from inside the railcar to a funnel shaped hopper just inside the building. The machine weighs the material to a designated weight and then releases the material into the super sack that is attached to the neck of the funnel hopper. Once the sack is filled, the operator seals the sack, labels it, and sets it aside until to order is complete. The filled sacks are then warehoused until the customer requests them. Dust collection is in place at the sack fill station via baghouse (2C).

APPENDIX F – Process Flow Diagram for Open Dump Truck Loading (5S) Once the FIBC is emptied, the Strip from FIBC is removed to The FIBC is lifted over the truck Flexible intermediate bulk spout is tied off and the tote is bed. The spout of the flexible begin loading into dump truck. containers (FIBC) are staged removed. tote is positioned in one of A hose, connected to a by open dump truck loading multiple cover slits. baghouse (1C), is positioned at area. The loading cover is the slit used for loading. placed over the truck bed.

APPENDIX G - Process Description for Open Dump Truck Loading (5S)

The size of the material loaded into the dump trucks will depend on how much material is staged for loading. This can be in 1,000 or 2,000-lb flexible intermediate bulk container (FIBC). Prior to loading, a cover is placed over the dump truck bed with multiple slits for loading.

The flexible tote is picked up with a forklift, brought over, and centered above one of the four slits in the cover. The flexible tote spout is lowered into the slit. The strip from the flexible tote is removed to begin loading into the dump truck through the cover slit. A hose, connected to a baghouse (1C), is positoned at the slit during loading.

Once the flexible tote is empty, the spout is then re-tied to prevent carbon from coming out of the tote when removing from the cover. The forklift driver then returns, and the employee removes the empty tote to discard. The forklift driver repeats until all totes are emptied into the dump truck.

ATTACHMENT H

Safety Data Sheet



Issued: 10/20/2020 Supersedes: 03/02/2020

Version: 4.0

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product identifier

Product name : CPG LF 12X40
Product form : Substance
CAS No : 7440-44-0
Product code : 11800

Synonyms : Activated carbon; Steam activated carbon

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Adsorbent

1.3. Details of the supplier of the safety data sheet

Calgon Carbon Corporation P.O. Box 717 Pittsburgh, PA 15230 412-787-6700

1.4. Emergency telephone number

Emergency number : CHEMTREC (24 HRS): 1-800-424-9300

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

GHS-US classification

Combustible Dust

Not classified as a simple asphyxiant. Product does not displace oxygen in the ambient atmosphere, but slowly adsorbs oxygen from a confined space when wet. Under conditions of anticipated and recommended use, product does not pose an asphyxiation hazard.

2.2. Label elements

GHS-US labeling

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : May form combustible dust concentrations in air.

2.3. Other hazards

Other hazards not contributing to the

classification

: Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/Information on Ingredients

3.1. Substance

Name		Product identifier	%
ĺ	Activated carbon	(CAS No) 7440-44-0	< 100

3.2. Mixture

Not applicable

SECTION 4: First Aid Measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the

doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an

unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at

least 15 minutes.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact

lenses if present and easy to do so. Continue rinsing.

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First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison

control center or medical professional. Get medical attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use. Dust

may cause irritation to the respiratory system.

Symptoms/injuries after skin contact : Dust may cause irritation.

Symptoms/injuries after eye contact : Dust may cause irritation and redness.

Symptoms/injuries after ingestion : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide. Dry chemical. Foam. Sand.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Dust may be combustible under specific conditions. May be ignited by heat, sparks or flames.

Explosion hazard : Dust may form explosive mixture in air.

Reactivity : No dangerous reactions known under normal conditions of use. Carbon oxides may be emitted

upon combustion of material.

5.3. Advice for firefighters

Firefighting instructions : Wear NIOSH-approved self-contained breathing apparatus suitable for the surrounding fire.

Use water spray or fog for cooling exposed containers. Evacuate area.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

No additional information available.

6.1.2. For emergency responders

No additional information available.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Product is not soluble, but can cause particulate emission if discharged into waterways. Dike all entrances to sewers and drains to avoid introducing material to waterways. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.

Dispose of material in compliance with local, state, and federal regulations.

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a cool, dry, and well-ventilated place. Keep away from ignition

sources

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SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Activated carbon (7440-44-0)*	
OSHA PEL (TWA) (mg/m³)	≤ 5 (Respirable Fraction)
	≤ 15 (Total Dust)

^{*}Exposure limits are for inert or nuisance dust. No specific exposure limits have been established for this activated carbon product by OSHA or ACGIH.

8.2. Exposure controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas. Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

Personal protective equipment : Gloves. Safety glasses. Protective clothing. Under insufficient ventilation conditions wear

respiratory protection.









Hand protection

: Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection : Use eye protection suitable to the environment. Avoid direct contact with eyes.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection : Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or

other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Granular, powder, or pelletized substance

Color : Black
Odor : Odorless

Odor threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : Not applicable Melting point : Not applicable Freezing point : Not applicable Boiling point : Not applicable Flash point : Not applicable : Not applicable

Auto-ignition temperature : > 325 °C

Decomposition temperature : No data available

Flammability (solid, gas) : > 325 °C Vapor pressure : Not applicable Relative vapor density at 20 °C : Not applicable Apparent density : 0.3 - 0.75 g/cc Solubility : Insoluble Log Pow : Not applicable Log Kow Not applicable : Not applicable Viscosity, kinematic Viscosity, dynamic : Not applicable Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : No data available

9.2. Other information

No additional information available.

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SECTION 10: Stability and Reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2 Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid dust formation. Heat. Ignition sources. Exposure to high concentrations of organic compounds may cause bed temperature to rise.

10.5. Incompatible materials

Alkali metals. Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂).

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

: Not classified Acute toxicity

Activated carbo	on (7440-44-0)
-----------------	----------------

LD₅₀ oral rat > 2000 mg/kg

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation Not classified Germ cell mutagenicity Not classified : Not classified Carcinogenicity

Silica: crystalline, quartz (14808-60-7)

IARC group 1 - Carcinogenic to humans

The International Agency for Research on Cancer (IARC) has classified "silica dust, crystalline, in the form of quartz or cristobalite" as carcinogenic to humans (group 1). However these warnings refer to crystalline silica dusts and do not apply to solid activated carbon containing crystalline silica as a naturally occuring, bound impurity. As such, we have not classified this product as a carcinogen in accordance with the US OSHA Hazard Communication Standard (29 CFR §1910.1200) but recommmend that users avoid inhalation of product in a dust form.

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard

: Not classified

Symptoms/injuries after inhalation

: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact Symptoms/injuries after eye contact

: Dust may cause irritation of the skin.

: Dust may cause irritation and redness.

Symptoms/injuries after ingestion : Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological Information

12.1. Toxicity

No additional information available.

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

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Other adverse effects 12.5.

No additional information available.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Waste treatment and disposal methods

Vacuum or shovel material into a closed container. Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

Additional information

Activated carbon is an adsorbent media; hazard classification is generally determined by the adsorbate. Consult U.S. EPA guidelines listed in 40 CFR 261.3 for more information on

hazardous waste disposal.

SECTION 14: Transport Information

14.1. In accordance with DOT

Not classified as hazardous for domestic land transport.

UN-No.(DOT) : None on finished product DOT NA no. : None on finished product

Proper Shipping Name (DOT) : Not regulated

Department of Transportation (DOT) Hazard

Classes

: None on finished product

Hazard labels (DOT) : None on finished product Packing group (DOT) : None on finished product DOT Quantity Limitations Passenger aircraft/rail : None on finished product

(49 CFR 173.27)

14.2. Transport by sea

Not classified as hazardous for water transport.

IMO / IMDG

UN/NA Identification Number : None on finished product

UN- Proper Shipping Name : Not regulated

Transport Hazard Class : None on finished product

14.3. Air transport

Not classified as hazardous for air transport.

ICAO / IATA

: None on finished product UN/NA No

UN- Proper Shipping Name : Not regulated

Transport Hazard Class : None on finished product Packing Group : None on finished product Marine Pollutant : None on finished product

14.4. Additional information

Other information

: Under the UN classification for activated carbon, all activated carbons have been identified as a class 4.2 product. However, this product type or an equivalent has been tested according to the *United Nations Transport of Dangerous Goods* test protocol for a "self-heating substance" (United Nations Transportation of Dangerous Goods, Manual of Tests and Criteria, Part III, Test N.4 - Test Method for Self Heating Substances) and it has been specifically determined that this product type or an equivalent does not meet the definition of a self-heating substance (class 4.2). This information is applicable to the steam activated carbon product described in this document.

SECTION 15: Regulatory Information

15.1. US Federal regulations

CPG LF 12X40

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule"). as of February 2019 or are otherwise exempt.

SARA Section 311/312 Hazard Classes Physical hazard - Combustible dust

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Cobalt (7440-48-4)	
Listed on the United States TSCA (Toxic Substan Listed on United States SARA Section 313	ces Control Act) inventory
SARA Section 313 - Emission Reporting	0.1 %

15.2. International regulations

No additional information available.

15.3. US State regulations

California Proposition 65

MARNING:

This product can expose you to chemicals including Silica: crystalline, quartz, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Silica: crystalline, quartz (14808-60-7)	X					
Titanium dioxide (13463-67-7)	Х				Not available	
Cobalt (7440-48-4)	Х					

Component	State or local regulations
Aluminum oxide (1344-28-1)	U.S New Jersey - Right to Know Hazardous Substance List U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Calcium sulfate (7778-18-9)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List U.S Massachusetts - Right To Know List
Silica: crystalline, quartz (14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List U.S Massachusetts - Right To Know List
Titanium dioxide (13463-67-7)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List U.S Massachusetts - Right To Know List
Cobalt (7440-48-4)	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Massachusetts - Right To Know List

SECTION 16: Other Information

Indication of changes:Revision 4.0Revision Date:10/20/2020Other information:Author: ADKFor internal use only:PR #1

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

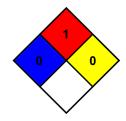
NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard

beyond that of ordinary combustible materials.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 0
Flammability : 1
Physical : 0

Product Code: 11800 Safety Data Sheet

Personal Protection

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The information is this document applies to this specific material as supplied. It may not be valid if product is used in combination with other materials. It is the user's responsibility to determine the suitability and completeness of this information for their particular use. While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Calgon Carbon Corporation makes no warranty with respect to the same, and disclaims all liability for reliance thereon.

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ATTACHMENT I

Attachment I

Emission Units Table

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID ¹	Emission Point ID ²	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type ³ and Date of Change	Control Device ⁴
1S	2E	Bulk Truck Unloading	Unknown	10.7 TPH	Unknown	2C
2S	1E	Bulk Truck Loading	2017	10.7 TPH	Installed 2017	1C
3S	1E	Small Bagging	2017	0.75 TPH	Installed 2017	1C
4S	2E	Pneumatic Rail Car Loading/Unloading	Unknown	10.7 TPH	Unknown	2C
5S	1E	Open Dump Truck Loading	2017	40 TPH	Installed 2017	1C

¹ For Emission Units (or <u>S</u>ources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
² For <u>E</u>mission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
³ New, modification, removal

	Emission Units Table
Page of	03/2007

⁴ For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

ATTACHMENT J

Attachment J EMISSION POINTS DATA SUMMARY SHEET

Table 1: Emissions Data															
Emission Point ID No. (Must match Emission Units Table & Plot Plan)	Emission Point Type ¹	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		Vent Time for Emission Unit (chemical processes only)		All Regulated Pollutants - Chemical Name/CAS ³ (Speciate VOCs & HAPS)	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used ⁶	Emission Concentration ⁷ (ppmv or mg/m ³)
		ID No.	Source	ID No.	Device Type	Short Term ²	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr	Gas/Vapor)		
1E	Downward Vertical Stack	2S, 3S, 5S		1C	Baghouse			PM	2965. 20	1694. 84	29.6 5	16.95	Solid	AP	Ppmv
2E	Downward Vertical Stack	1S, 4S		2C	Baghouse			PM	1198.40	832.72	11.98	8.33	Solid	AP	Ppmv

The EMISSION POINTS DATA SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncaptured process emission unit emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY SHEET for fugitive emission activities.

¹ Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.

² Indicate by "C" if venting is continuous. Otherwise, specify the average short-term venting rate with units, for intermittent venting (ie., 15 min/hr). Indicate as many rates as needed to clarify frequency of venting (e.g., 5 min/day, 2 days/wk).

 $^{^3}$ List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. **LIST** Acids, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO₃, all applicable Greenhouse Gases (including CO₂ and methane), etc. **DO NOT LIST** H₂, H₂O, N₂, O₂, and Noble Gases.

⁴ Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

⁵ Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).

Provide for all pollutant emissions. Typically, the units of parts per million by volume (ppmv) are used. If the emission is a mineral acid (sulfuric, nitric, hydrochloric or phosphoric)

use units of milligram per dry cubic meter (mg/m³) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO₂, use units of ppmv (See 45CSR10).

Attachment J EMISSION POINTS DATA SUMMARY SHEET

Table 2: Release Parameter Data											
Emission Point ID No. (Must match Emission Units Table)	Inner Diameter (ft.)		Exit Gas		Emission Point E	levation (ft)	UTM Coordinates (km)				
		Temp. (°F)	Volumetric Flow ¹ (acfm) at operating conditions	Velocity (fps)	Ground Level (Height above mean sea level)	Stack Height ² (Release height of emissions above ground level)	Northing	Easting			
1E	15'	Ambient	6000	215	570.57	4FT Horizontal	4253322.1343248	373842.353341909			
2E	8.375'	Ambient	2700	117	570.57	4FT Horizontal	4253322.1343248	373842.353341909			

¹ Give at operating conditions. Include inerts. ² Release height of emissions above ground level.

ATTACHMENT K

Attachment K

FUGITIVE EMISSIONS DATA SUMMARY SHEET

The FUGITIVE EMISSIONS SUMMARY SHEET provides a summation of fugitive emissions. Fugitive emissions are those emissions which could not reasonably pass through a stack, chimney, vent or other functionally equivalent opening. Note that uncaptured process emissions are not typically considered to be fugitive, and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET.

Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions).

	APPLICATION FORMS CHECKLIST - FUGITIVE EMISSIONS				
1.)	Will there be haul road activities?				
	⊠ Yes □ No				
	☐ If YES, then complete the HAUL ROAD EMISSIONS UNIT DATA SHEET.				
2.)	Will there be Storage Piles?				
	☐ Yes No				
	☐ If YES, complete Table 1 of the NONMETALLIC MINERALS PROCESSING EMISSIONS UNIT DATA SHEET.				
3.)	Will there be Liquid Loading/Unloading Operations?				
	☐ Yes				
	☐ If YES, complete the BULK LIQUID TRANSFER OPERATIONS EMISSIONS UNIT DATA SHEET.				
4.)	Will there be emissions of air pollutants from Wastewater Treatment Evaporation?				
	☐ Yes				
	☐ If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.				
5.)	Will there be Equipment Leaks (e.g. leaks from pumps, compressors, in-line process valves, pressure relief devices, open-ended valves, sampling connections, flanges, agitators, cooling towers, etc.)?				
	☐ Yes				
	$\hfill \square$ If YES, complete the LEAK SOURCE DATA SHEET section of the CHEMICAL PROCESSES EMISSIONS UNIT DATA SHEET.				
6.)	Will there be General Clean-up VOC Operations?				
	☐ Yes				
	☐ If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.				
7.)	Will there be any other activities that generate fugitive emissions?				
	⊠ Yes □ No				
	$oxed{oxed}$ If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET or the most appropriate form.				
	ou answered "NO" to all of the items above, it is not necessary to complete the following table, "Fugitive Emissions mmary."				

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FUGITIVE EMISSIONS SUMMARY	All Regulated Pollutants	Maximum Potential Uncontrolled Emissions ²		Maximum Potential Controlled Emissions ³		Est. Method
	Chemical Name/CAS ¹	lb/hr	ton/yr	lb/hr	ton/yr	Used ⁴
Haul Road/Road Dust Emissions Paved Haul Roads						
Unpaved Haul Roads	Activated Carbon CAS 7440- 44-0	0.265	1.160	0.265	1.160	EE
Storage Pile Emissions						
Loading/Unloading Operations						
Wastewater Treatment Evaporation & Operations						
Equipment Leaks						
General Clean-up VOC Emissions						
Other	Activated Carbon CAS 7440- 44-0	2.5	3.25	1.1	1.43	EE

¹ List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS₂, VOCs, H₂S, Inorganics, Lead, Organics, O₃, NO, NO₂, SO₂, SO₃, all applicable Greenhouse Gases (including CO₂ and methane), etc. DO NOT LIST H₂, H₂O, N₂, O₂, and Noble Gases.

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² Give rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

³ Give rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

⁴ Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).

ATTACHMENT L

To be used for affected sources other than asphalt plants, foundries, incinerators, indirect heat exchangers, and quarries.

Identification Number (as assigned on Equipment List Form): 1S

Name or type and model of proposed affected source:
Bulk truck unloading
2. On a separate sheet(s), furnish a sketch(es) of this affected source. If a modification is to be
 On a separate sheet(s), furnish a sketch(es) of this affected source. If a modification is to be made to this source, clearly indicated the change(s). Provide a narrative description of all features of the affected source which may affect the production of air pollutants.
3. Name(s) and maximum amount of proposed process material(s) charged per hour:
10.70 TPH Carbon (This is the amount of Carbon Material being unloaded from the bulk Trailers)
4. Name(s) and maximum amount of proposed material(s) produced per hour:
5.99 PPH Carbon
5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:
N/A

6.	Co	ombustion Data (if applicable):				
	(a)) Type and amount in appropriate units of fuel(s) to be burned:				
N	/A					
	/L\					
	(D)	Chemical analysis of prand ash:	oposea ruei(s),	excluding coal, in	cluding maxim	um percent sullur
	(c)	Theoretical combustion	air requiremen	t (ACF/unit of fue	l):	
		@		°F and		psia.
	(d)	Percent excess air:				
		Type and BTU/hr of bu	rnore and all oth	or firing oquipmo	ent planned to l	ao ucod:
	(6)	Type and BTO/III of bu	iners and an on	iei iiiiig equipine	ini pianneu io i	de useu.
	(f)	If coal is proposed as a	source of fuel,	identify supplier a	nd seams and	give sizing of the
		coal as it will be fired:				
	(g)	Proposed maximum de	sign heat input:			× 10 ⁶ BTU/hr.
7.	Pro	jected operating sched	ule:			
Ho	Hours/Day 10 Days/Week 5 Weeks/Year 52					

8.	8. Projected amount of pollutants that would be emitted from this affected source if no control devices were used:					
@		°F and	psia			
a.	NO _X	lb/hr	grains/ACF			
b.	SO ₂	lb/hr	grains/ACF			
c.	СО	lb/hr	grains/ACF			
d.	PM ₁₀	lb/hr	grains/ACF			
e.	Hydrocarbons	lb/hr	grains/ACF			
f.	VOCs	lb/hr	grains/ACF			
g.	Pb	lb/hr	grains/ACF			
h.	Specify other(s)					
	PM	599 lb/hr	grains/ACF			
		lb/hr	grains/ACF			
		lb/hr	grains/ACF			
		lb/hr	grains/ACF			

	and reporting in order to demonstrate compliance Please propose testing in order to demonstrate
MONITORING	RECORDKEEPING
REPORTING	TESTING
	E PROCESS PARAMETERS AND RANGES THAT ARE ISTRATE COMPLIANCE WITH THE OPERATION OF THIS CONTROL DEVICE.
RECORDKEEPING. PLEASE DESCRIBE THE PROFMONITORING.	POSED RECORDKEEPING THAT WILL ACCOMPANY THE
REPORTING. PLEASE DESCRIBE THE PRORECORDKEEPING.	POSED FREQUENCY OF REPORTING OF THE
TESTING. PLEASE DESCRIBE ANY PROPOSED EMISPOLLUTION CONTROL DEVICE.	SSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR
10. Describe all operating ranges and mainter maintain warranty The Bulk Truck Unloading process will occur with an ass	nance procedures required by Manufacturer to ociated baghouse.

To be used for affected sources other than asphalt plants, foundries, incinerators, indirect heat exchangers, and quarries.

Identification Number (as assigned on Equipment List Form): 2S

Name or type and model of proposed affected source:
Bulk truck loading
 On a separate sheet(s), furnish a sketch(es) of this affected source. If a modification is to be made to this source, clearly indicated the change(s). Provide a narrative description of all features of the affected source which may affect the production of air pollutants.
3. Name(s) and maximum amount of proposed process material(s) charged per hour:
10.70 TPH Carbon (This is the amount of Carbon Material being loaded into the bulk Trailers)
4. Name(s) and maximum amount of proposed material(s) produced per hour:
5.99 PPH Carbon
Cive showing recations if applicable that will be involved in the government of six pollutants
5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:
N/A

6.	Co	ombustion Data (if applicable):					
	(a)	Type and amount in appropriate units of fuel(s) to be burned:					
N/	Α						
	<i>(</i> 1.)	0		16 16	1 12 1 1		
	(D)	and ash:	sis of pr	oposea tuei(s), ex	cluding coal, ii	ncluding maxim	um percent sulfur
N/	Α						
	(c)	Theoretical cor	nbustion	air requirement (ACF/unit of fue	el):	
	• •	N/A	@	N/A	°F and	N/A	noio
		IV/A	<u>w</u>	N/A	r anu	IN/A	psia.
	(d)	Percent excess	s air: N	J/A			
	(e)	Type and BTU	hr of bu	rners and all other	firing equipm	ent planned to I	oe used:
N/	Α.						
11/	Л						
	(f)	If coal is propos		source of fuel, ide	entify supplier	and seams and	give sizing of the
N/	A						
	(g)	Proposed maxi	imum de	sign heat input:			× 10 ⁶ BTU/hr.
7.	Pro	jected operating	g schedi	ule:			
					5	Wooks/Voor	52
пοι	ııS/	Day 10	'	Days/Week	5	Weeks/Year	52

8.	. Projected amount of pollutants that would be emitted from this affected source if no control devices were used:				
@		°F and	psia		
a.	NO _X	lb/hr	grains/ACF		
b.	SO ₂	lb/hr	grains/ACF		
C.	СО	lb/hr	grains/ACF		
d.	PM ₁₀	lb/hr	grains/ACF		
e.	Hydrocarbons	lb/hr	grains/ACF		
f.	VOCs	lb/hr	grains/ACF		
g.	Pb	lb/hr	grains/ACF		
h.	Specify other(s)				
	PM	599 lb/hr	grains/ACF		
		lb/hr	grains/ACF		
		lb/hr	grains/ACF		
		lb/hr	grains/ACF		

 Proposed Monitoring, Recordkeeping, Reporting, and Testing Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits. 				
MONITORING	RECORDKEEPING			
REPORTING	TESTING			
MONITORING. PLEASE LIST AND DESCRIBE THI PROPOSED TO BE MONITORED IN ORDER TO DEMON	ISTRATE COMPLIANCE WITH THE OPERATION OF THIS			
PROCESS EQUIPMENT OPERATION/AIR POLLUTION				
RECORDKEEPING. PLEASE DESCRIBE THE PROP MONITORING.	'OSED RECORDKEEPING THAT WILL ACCOMPANY THE			
REPORTING. PLEASE DESCRIBE THE PRO	POSED FREQUENCY OF REPORTING OF THE			
RECORDKEEPING.				
TESTING. PLEASE DESCRIBE ANY PROPOSED EMISPOLLUTION CONTROL DEVICE.	SSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR			
10. Describe all operating ranges and mainter	nance procedures required by Manufacturer to			
maintain warranty				
The Bulk Tanker Truck Loading process will occur with th into the tanker truck with the assistance of a vibrator and				

To be used for affected sources other than asphalt plants, foundries, incinerators, indirect heat exchangers, and quarries.

Identification Number (as assigned on Equipment List Form): 3S

Name or type and model of proposed affected source:
Activated Carbon Bagging
2. On a separate sheet(s), furnish a sketch(es) of this affected source. If a modification is to be made to this source, clearly indicated the change(s). Provide a narrative description of a features of the affected source which may affect the production of air pollutants.
3. Name(s) and maximum amount of proposed process material(s) charged per hour:
0.75 TPH
Name(s) and maximum amount of proposed material(s) produced per hour:
4. Name(s) and maximum amount of proposed material(s) produced per nour.
1.26 PPH
5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants
N/A

6.	Co	ombustion Data (if applicable):					
	(a)	Type and amount in appropriate units of fuel(s) to be burned:					
N/	Α						
	/I- \	Oh'			.lP	L. C L P	
	(b)	and ash:	iysis of pr	oposed fuel(s), exc	cluding coal	i, including maxin	num percent sulfur
N/	Α						
	(c)	Theoretical co	mbustion	air requirement (A	CF/unit of	fuel):	
	()	N/A					naia
		N/A	@	N/A	°F and	N/A	psia.
	(d)	Percent exces	ss air: N	J/A			
	(e)	Type and BTU	J/hr of bu	rners and all other	firing equip	ment planned to	be used:
N/	Α.						
11/	A						
	(f)	If coal is propo coal as it will b		source of fuel, ide	ntify supplie	er and seams and	d give sizing of the
N/	A						
	(g)	Proposed max	ximum de	sign heat input:		N/A	× 10 ⁶ BTU/hr.
7.	Pro	jected operatir	ng schedu	ule:			
					E	Mooks Moor	50
ΠOL	JIS/	Day	8	Days/Week	5	Weeks/Year	52

8.	3. Projected amount of pollutants that would be emitted from this affected source if no control devices were used:					
@		psia				
a.	NO _X	lb/hr	grains/ACF			
b.	SO ₂	lb/hr	grains/ACF			
c.	СО	lb/hr	grains/ACF			
d.	PM ₁₀	lb/hr	grains/ACF			
e.	Hydrocarbons	lb/hr	grains/ACF			
f.	VOCs	lb/hr	grains/ACF			
g.	Pb	lb/hr	grains/ACF			
h.	Specify other(s)					
	PM	126 lb/hr	grains/ACF			
		lb/hr	grains/ACF			
		lb/hr	grains/ACF			
		lb/hr	grains/ACF			

	and reporting in order to demonstrate compliance Please propose testing in order to demonstrate
MONITORING	RECORDKEEPING
REPORTING	TESTING
	I E PROCESS PARAMETERS AND RANGES THAT ARE ISTRATE COMPLIANCE WITH THE OPERATION OF THIS CONTROL DEVICE.
RECORDKEEPING. PLEASE DESCRIBE THE PROFMONITORING.	POSED RECORDKEEPING THAT WILL ACCOMPANY THE
REPORTING. PLEASE DESCRIBE THE PRORECORDKEEPING.	OPOSED FREQUENCY OF REPORTING OF THE
TESTING. PLEASE DESCRIBE ANY PROPOSED EMISPOLLUTION CONTROL DEVICE.	SSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR
10. Describe all operating ranges and mainter maintain warranty Small bagging occurs indoors with an associated baghous	nance procedures required by Manufacturer to
onan ougging occurs indoors with an associated oughous	

To be used for affected sources other than asphalt plants, foundries, incinerators, indirect heat exchangers, and quarries.

Identification Number (as assigned on Equipment List Form): 4S

Name or type and model of proposed affected source:	
Pneumatic Railcar Loading/Unloading	
 On a separate sheet(s), furnish a sketch(es) of this affected source. made to this source, clearly indicated the change(s). Provide a na features of the affected source which may affect the production of a 	rrative description of all
3. Name(s) and maximum amount of proposed process material(s) cha	arged per hour:
10.70 TPH Carbon (This is the amount of Carbon Material being loaded/unloaded from	om the railcars)
A Name (a) and an evication are a superior for a superior described as a facility of a superior described as	
4. Name(s) and maximum amount of proposed material(s) produced p	er nour:
5.99 PPH Carbon	
3.77 TTT Carbon	
5. Give chemical reactions, if applicable, that will be involved in the gen	eration of air pollutants:
N/A	

6.	Co	ombustion Data (if applicable):						
	(a)) Type and amount in appropriate units of fuel(s) to be burned:						
	(b)	Chemical analysis of prand ash:	oposed fuel(s), e	xcluding coal, in	cluding maxim	um percent sulfur		
		und don.						
	(c)	Theoretical combustion	air requirement	(ACF/unit of fue	I)·			
	(0)		ran roquiromoni		'/)·	_		
		@		°F and		psia.		
	(d)	Percent excess air:						
	(e)	Type and BTU/hr of bu	rners and all othe	er firing equipme	ent planned to b	pe used:		
	(f)	If coal is proposed as a	source of fuel in	lentify supplier a	and seams and	give sizing of the		
	(-)	coal as it will be fired:		,		999		
	(~\	Drop oo d maddan a	nion bestimmer			406 DTU/-		
	(g)	Proposed maximum de	sign neat input:			× 10 ⁶ BTU/hr.		
7.	Pro	ejected operating sched	ule:		1			
Но	urs/l	Day 10	Days/Week	5	Weeks/Year	52		

8.	3. Projected amount of pollutants that would be emitted from this affected source if no control devices were used:					
@		psia				
a.	NO _X	lb/hr	grains/ACF			
b.	SO ₂	lb/hr	grains/ACF			
c.	СО	lb/hr	grains/ACF			
d.	PM ₁₀	lb/hr	grains/ACF			
e.	Hydrocarbons	lb/hr	grains/ACF			
f.	VOCs	lb/hr	grains/ACF			
g.	Pb	lb/hr	grains/ACF			
h.	Specify other(s)					
	PM	599 lb/hr	grains/ACF			
		lb/hr	grains/ACF			
		lb/hr	grains/ACF			
		lb/hr	grains/ACF			

	and reporting in order to demonstrate compliance Please propose testing in order to demonstrate
MONITORING	RECORDKEEPING
REPORTING	TESTING
	E PROCESS PARAMETERS AND RANGES THAT ARE STRATE COMPLIANCE WITH THE OPERATION OF THIS CONTROL DEVICE.
RECORDKEEPING. PLEASE DESCRIBE THE PROPMONITORING.	POSED RECORDKEEPING THAT WILL ACCOMPANY THE
REPORTING. PLEASE DESCRIBE THE PRORECORDKEEPING.	POSED FREQUENCY OF REPORTING OF THE
TESTING. PLEASE DESCRIBE ANY PROPOSED EMISPOLLUTION CONTROL DEVICE.	SSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR
10. Describe all operating ranges and mainter maintain warranty Pneumatic railcar loading/unloading occurs with an association.	nance procedures required by Manufacturer to
Thedinate ranear foating amounting occurs with an associ	faced buginouse.

To be used for affected sources other than asphalt plants, foundries, incinerators, indirect heat exchangers, and quarries.

Identification Number (as assigned on Equipment List Form): 5S

Name or type and model of proposed affected source:
Open Dump Truck Loading
 On a separate sheet(s), furnish a sketch(es) of this affected source. If a modification is to be made to this source, clearly indicated the change(s). Provide a narrative description of all features of the affected source which may affect the production of air pollutants.
3. Name(s) and maximum amount of proposed process material(s) charged per hour:
40 TPH Carbon (This is the amount of Carbon Material being loaded into the dump trucks)
10 1111 Cutosh (This is the uniount of Cutosh Famerica Sonig folded into the cump tracks)
4. Name(s) and maximum amount of proposed material(s) produced per hour:
22.4 PPH Carbon
5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:
N/A

6.	Co	mbustion Data (if applica	able):				
	(a)	Type and amount in appropriate units of fuel(s) to be burned:						
N/	Ά							
	/h\	Chaminal analy		anacad fuel(a) as	valuudina aaal ii			
	(D)	and ash:	sis oi pr	oposea ruer(s), ex	cluding coal, i	ncluding maxim	um percent sulfur	
	, .							
N/	Ά							
	(c)	Theoretical con	nbustion	air requirement (ACF/unit of fu	el):		
		N/A	@	N/A	°F and	N/A	psia.	
	(d)	Percent excess	air: N	J/A				
	(e)	Type and BTU/	hr of bu	rners and all othe	r firing equipm	ent planned to I	be used:	
N/	/ A							
11/	А							
	(f)			source of fuel, ide	entify supplier	and seams and	give sizing of the	
		coal as it will be	e fired:					
N/	Ά							
	(g)	Proposed maxi	mum de	sign heat input:			× 10 ⁶ BTU/hr.	
7.	Pro	jected operating	g schedu	ıle:				
Ηοι	urs/	Day 10		Days/Week	5	Weeks/Year	52	

8.	. Projected amount of pollutants that would be emitted from this affected source if no control devices were used:					
@		°F and	psia			
a.	NO _X	lb/hr	grains/ACF			
b.	SO ₂	lb/hr	grains/ACF			
C.	СО	lb/hr	grains/ACF			
d.	PM ₁₀	lb/hr	grains/ACF			
e.	Hydrocarbons	lb/hr	grains/ACF			
f.	VOCs	lb/hr	grains/ACF			
g.	Pb	lb/hr	grains/ACF			
h.	Specify other(s)					
	PM	2240 lb/hr	grains/ACF			
		lb/hr	grains/ACF			
		lb/hr	grains/ACF			
		lb/hr	grains/ACF			

with the proposed operating parameters. F compliance with the proposed emissions lim	and reporting in order to demonstrate compliance Please propose testing in order to demonstrate ints.
MONITORING	RECORDKEEPING
REPORTING	TESTING
MONITORING. PLEASE LIST AND DESCRIBE THI PROPOSED TO BE MONITORED IN ORDER TO DEMON PROCESS EQUIPMENT OPERATION/AIR POLLUTION	STRATE COMPLIANCE WITH THE OPERATION OF THIS
RECORDKEEPING. PLEASE DESCRIBE THE PROP MONITORING.	OSED RECORDKEEPING THAT WILL ACCOMPANY THE
REPORTING. PLEASE DESCRIBE THE PRORECTOR RECORDING.	POSED FREQUENCY OF REPORTING OF THE
TESTING. PLEASE DESCRIBE ANY PROPOSED EMISPOLLUTION CONTROL DEVICE.	SSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR
10. Describe all operating ranges and mainter	nance procedures required by Manufacturer to
maintain warranty The Open Dump Truck Loading process will occur with t	the assistance of a cover over the dump truck had. A flavi
ble tote will be lifted over the truck, the spout from the tot	-
then the tote will be opened. A hose, connected to the nea loading into, to catch particulates.	

Attachment L FUGITIVE EMISSIONS FROM UNPAVED HAULROADS

UNPAVED HAULROADS (including all equipment traffic involved in process, haul trucks, endloaders, etc.)

PM PM-10

k =	Particle size multiplier	0.80	0.36
s =	Silt content of road surface material (%)		
p =	Number of days per year with precipitation >0.01 in.		

Item Number		Description	Number of Wheels	Mean Vehicle Weight (tons)	Mean Vehicle Speed (mph)	Miles per Trip	Maximum Trips per Hour	Maximum Trips per Year	Control Device ID Number	Control Efficiency (%)
1	N/A									
2										
3										
4										
5										
6										
7										
8										

Source: AP-42 Fifth Edition - 13.2.2 Unpaved Roads

 $E = k \times 5.9 \times (s \div 12) \times (S \div 30) \times (W \div 3)^{0.7} \times (w \div 4)^{0.5} \times ((365 - p) \div 365) =$ lb/Vehicle Mile Traveled (VMT)

Where:

		PM	PM-10
k =	Particle size multiplier	0.80	0.36
s =	Silt content of road surface material (%)		
S =	Mean vehicle speed (mph)		
W =	Mean vehicle weight (tons)		
w =	Mean number of wheels per vehicle		
p =	Number of days per year with precipitation >0.01 in.		

For lb/hr: $[lb \div VMT] \times [VMT \div trip] \times [Trips \div Hour] = lb/hr$

For TPY: $[lb \div VMT] \times [VMT \div trip] \times [Trips \div Hour] \times [Ton \div 2000 lb] = Tons/year$

SUMMARY OF UNPAVED HAULROAD EMISSIONS

	PM			PM-10				
Item No.	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1								
2								
3								
4								
5								
6								
7								
8								
TOTALS								

FUGITIVE EMISSIONS FROM PAVED HAULROADS

INDUSTRIAL PAVED HAULROADS (including all equipment traffic involved in process, haul trucks, endloaders, etc.)

l =	Industrial augmentation factor (dimensionless)	
n =	Number of traffic lanes	1
s =	Surface material silt content (%)	7.1
L=	Surface dust loading (lb/mile)	13.3 x 10^-3

Item Number	Description	Mean Vehicle Weight (tons)	Miles per Trip	Maximum Trips per Hour	Maximum Trips per Year	Control Device ID Number	Control Efficiency (%)
1	Tractor-FTV	20	0.13	4	3000 N/A		N/A
2	Tractor- Bulk Tanker	20	0.13	4	3000	N/A	N/A
3	Tractor- Dump Truck	20	0.13	4	2000	N/A	N/A
4							
5							
6							
7	7						
8							

Source: AP-42 Fifth Edition – 11.2.6 Industrial Paved Roads

 $E = 0.077 \times I \times (4 \div n) \times (s \div 10) \times (L \div 1000) \times (W \div 3)^{0.7} =$

lb/Vehicle Mile Traveled (VMT)

Where:

I =	Industrial augmentation factor (dimensionless)	
n =	Number of traffic lanes	1
s =	Surface meterial silt content (%)	7.1
L=	Surface dust loading (lb/mile)	13.3 x 10^-3
W =	Average vehicle weight (tons)	20

For lb/hr: $[lb \div VMT] \times [VMT \div trip] \times [Trips \div Hour] = lb/hr$

For TPY: $[lb \div VMT] \times [VMT \div trip] \times [Trips \div Hour] \times [Ton \div 2000 \ lb] = Tons/year$

SUMMARY OF PAVED HAULROAD EMISSIONS

Item No.	Uncon	trolled	Contr	olled	
item No.	lb/hr	TPY	lb/hr	TPY	
1	0.099	0.435	0.099	0.435	
2	0.099	0.435	0.099	0.435	
3	0.066	0.290	0.066	0.290	
4					
5					
6					
7					
8					
TOTALS	0.265	1.160	0.265	1.160	

To be used for affected sources other than asphalt plants, foundries, incinerators, indirect heat exchangers, and quarries.

Identification Number (as assigned on *Equipment List Form*): Other fugitive emissions

Name or type and model of proposed affected source:
Other fugitive emissions from carbon loading and unloading.
 On a separate sheet(s), furnish a sketch(es) of this affected source. If a modification is to be made to this source, clearly indicated the change(s). Provide a narrative description of al features of the affected source which may affect the production of air pollutants.
3. Name(s) and maximum amount of proposed process material(s) charged per hour:
2.5 РРН
4. Name(s) and maximum amount of proposed material(s) produced per hour:
NI/A
N/A
5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants
N/A

6.	Co	Combustion Data (if applicable):					
	(a)	Type and amount in ap	propriate units	of fuel(s) to be bu	ırned:		
N.	/A						
	(b)	Chemical analysis of prand ash:	oposed fuel(s),	excluding coal, ir	ncluding maxim	um percent sulfur	
	(c)	Theoretical combustion	air requiremer	nt (ACF/unit of fue	el):		
		@		°F and		psia.	
	(d)	Percent excess air:					
	-						
	(e)	Type and BTU/hr of bu	rners and all ot	her firing equipmo	ent planned to	be used:	
	/f \	If and in proposed as a	animan of final	idontify overaling			
	(f)	If coal is proposed as a coal as it will be fired:	source or ruer,	identity supplier	and seams and	give sizing of the	
	(a)	Proposed maximum de	sign heat input	<u> </u>		× 10 ⁶ BTU/hr.	
7				-			
1.	Pro	ected operating schedu	uie:		1		
Ho	urs/	Day 10	Days/Week	5	Weeks/Year	52	

8.	Projected amount of pollutants that would be emitted from this affected source if no control devices were used:							
@		°F and	psia					
a.	NO _X	lb/hr	grains/ACF					
b.	SO ₂	lb/hr	grains/ACF					
c.	СО	lb/hr	grains/ACF					
d.	PM ₁₀	lb/hr	grains/ACF					
e.	Hydrocarbons	lb/hr	grains/ACF					
f.	VOCs	lb/hr	grains/ACF					
g.	Pb	lb/hr	grains/ACF					
h.	Specify other(s)							
	PM	2.5 lb/hr	grains/ACF					
		lb/hr	grains/ACF					
		lb/hr	grains/ACF					
		lb/hr	grains/ACF					

	and reporting in order to demonstrate compliance Please propose testing in order to demonstrate
MONITORING	RECORDKEEPING
DEDODTING	TEOTINO
REPORTING	TESTING
	E PROCESS PARAMETERS AND RANGES THAT ARE STRATE COMPLIANCE WITH THE OPERATION OF THIS CONTROL DEVICE.
RECORDKEEPING. PLEASE DESCRIBE THE PROFMONITORING.	POSED RECORDKEEPING THAT WILL ACCOMPANY THE
REPORTING. PLEASE DESCRIBE THE PRORECORD KEEPING.	POSED FREQUENCY OF REPORTING OF THE
TESTING. PLEASE DESCRIBE ANY PROPOSED EMISPOLLUTION CONTROL DEVICE.	SSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR
	nance procedures required by Manufacturer to
maintain warranty	

ATTACHMENT M

Attachment M Air Pollution Control Device Sheet

(BAGHOUSE)

Control Device ID No. (must match Emission Units Table):

1C

Equipment Information and Filter Characteristics

1.	Manufacturer: CamCorp	2. Total number of compartments: 1	
	Model No. CA9-1.5D	3. Number of compartment online for operation: 1	normal
4.	Provide diagram(s) of unit describing capture syste capacity, horsepower of movers. If applicable, state I		
5.	Baghouse Configuration: Open Pressure (check one) Electrostatically Enha	☐ Closed Suction ☐ Closed Suction ☐ Closed Suction	
_	Other, Specify	7 8 8:	
6.	Filter Fabric Bag Material: Nomex nylon Wool Polyester Polypropylene	7. Bag Dimension: Diameter 15 Length 52	in. ft.
	☐ Acrylics ☐ Ceramics ☐ Fiber Glass	Length 52 8. Total cloth area: 2929	ft ²
	Cotton Weight oz./sq.yd		
	☐ Teflon Thickness in ☐ Others, specify	3	6/
		10. Operating air to cloth ratio: 2.06 to 1	ft/min
11.	Baghouse Operation: Continuous	Automatic Intermittent	
12.	Method used to clean bags: ☐ Mechanical Shaker ☐ Sonic Cleaning ☐ Pneumatic Shaker ☐ Reverse Air Flow ☐ Bag Collapse ☐ Pulse Jet ☐ Manual Cleaning ☐ Reverse Jet	☐ Reverse Air Jet ☐ Other:	
13.	Cleaning initiated by: ☐ Timer ☐ Expected pressure drop range in. of water	☐ Frequency if timer actuated ☐ Other	
14.	Operation Hours: Max. per day: 10 Max. per yr: 2600	15. Collection efficiency: Rating: 100 Guaranteed minimum: No guarantee	% provided
	Gas Stream C	haracteristics	
16.	Gas flow rate into the collector: 6000 ACFM ACFM: Design: PSIA Maximum:	at Ambient°F and 90-100 PSIA Average Expected:	PSIA PSIA
17.	Water Vapor Content of Effluent Stream: 1.4	lb. Water/lb. Dry Air	
18.	Gas Stream Temperature: Ambient °F	19. Fan Requirements: OR	hp ft³/min
20.	Stabilized static pressure loss across baghouse. Pre		in. H ₂ O in. H ₂ O
21.	Particulate Loading: Inlet:		ain/scf

22. Type of Pollutant(s) to be collected (if particulate give specific type): Carbon black						
23. Is there any SO ₃ in the emission s	stream? [es SO	3 conte	ent:	ppmv
24. Emission rate of pollutant (specify	-					
		I	N		C	UT
Pollutant		lb/hr	grains/a	acf	lb/hr	grains/acf
25. Complete the table:	Particle S	Bize Distribution to Collector	at Inlet	Frac	ction Efficienc	y of Collector
Particulate Size Range (microns)	Weig	ht % for Size Ra	inge	Weight % for Size Range		
0 – 2						
2 – 4		e size analysis conducted for t product				
4 – 6						
6 – 8						
8 – 10						
10 – 12						
12 – 16						
16 – 20						
20 – 30						
30 – 40						
40 – 50						
50 – 60						
60 – 70						
70 – 80						
80 – 90						
90 – 100						
>100						

26. How is filter monitored for indications of deterioration (e.g., broken bags)? Continuous Opacity Pressure Drop Alarms-Audible to Process Operator
☐ Visual opacity readings, Frequency:☐ Other, specify:
27. Describe any recording device and frequency of log entries:
Recordings have begun daily and turned in with the daily production logs
28. Describe any filter seeding being performed:
N/A
29. Describe any air pollution control device inlet and outlet gas conditioning processes (e.g., gas cooling, gas reheating, gas humidification):
N/A
30. Describe the collection material disposal system:
Product is collected from the bottom valve of the baghouse in drums which are sealed and disposed of in an onsite roll off dumpster.
31. Have you included <i>Baghouse Control Device</i> in the Emissions Points Data Summary Sheet? Yes
,

32. Proposed Monitoring, Recordkeeping, Reporting, and Testing Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.							
MONITORING:		RECORDKEEPING: Recording are now turned with the daily production logs					
Daily recordings of the	pressure drop gauge						
REPORTING:		TESTING:					
As requested		As requested					
MONITORING:	Please list and describe the process parameters and ranges that are proposed to be monitored in order to demonstrate compliance with the operation of this process						
RECORDKEEPING: REPORTING:	Please describe any proposed	cordkeeping that will accompany the monitoring. emissions testing for this process equipment on air					
TESTING:	pollution control device. Please describe any proposed pollution control device.	emissions testing for this process equipment on air					
33. Manufacturer's Gua	aranteed Capture Efficiency for ea	ch air pollutant.					
No guarantee provided							
34. Manufacturer's Gua	aranteed Control Efficiency for each	h air pollutant.					
99%							
35. Describe all operati	ng ranges and maintenance proce	edures required by Manufacturer to maintain warranty.					
N/A							

Attachment M Air Pollution Control Device Sheet

(BAGHOUSE)

Control Device ID No. (must match Emission Units Table): $2C\,$

Equipment Information and Filter Characteristics

1.	Manufacturer: Donaldson	2. Total number of compartments: 1							
	Model No. 3DF6	Number of compartment online for operation:	normal						
4.	 Provide diagram(s) of unit describing capture system with duct arrangement and size of duct, air volume, capacity, horsepower of movers. If applicable, state hood face velocity and hood collection efficiency. 								
5.	Baghouse Configuration:	☐ Closed Suction ☐ Closed Suction Inced Fabric							
	☐ Other, Specify								
6.	Filter Fabric Bag Material:	7. Bag Dimension:							
	Nomex nylon□ Wool□ Polyester☑ Polypropylene	Diameter 12.75	in.						
	Acrylics Ceramics	Length 2.17	ft.						
	Fiber Glass	8. Total cloth area: 10.86 ft ²							
	☐ Cotton Weight oz./sq.yd ☐ Teflon Thickness in ☐ Others, specify	9. Number of bags: 6							
		10. Operating air to cloth ratio: 46.65 / 70.95	5 ft/min						
11.	Baghouse Operation:	Automatic Intermittent							
12.	Method used to clean bags: ☐ Mechanical Shaker ☐ Sonic Cleaning ☐ Pneumatic Shaker ☐ Reverse Air Flow ☐ Bag Collapse ☐ Pulse Jet ☐ Manual Cleaning ☐ Reverse Jet	☐ Reverse Air Jet ☐ Other:							
13.	Cleaning initiated by: ☑ Timer ☐ Expected pressure drop range in. of water	☐ Frequency if timer actuated☐ Other							
14.	Operation Hours: Max. per day: 10 Max. per yr: 2600	15. Collection efficiency: Rating: 100 Guaranteed minimum: No Guarantee	% Provided						
	Gas Stream C	haracteristics							
16.	Gas flow rate into the collector: 2700 ACFM	at Ambient °F and	PSIA						
	ACFM: Design: PSIA Maximum:	PSIA Average Expected:	PSIA						
17.	Water Vapor Content of Effluent Stream:	lb. Water/lb. Dry Air							
18.	Gas Stream Temperature: °F	19. Fan Requirements:	hp						
		OR	ft ³ /min						
20.	Stabilized static pressure loss across baghouse. Pre	ssure Drop: High	in. H ₂ O						
		Low	in. H ₂ O						
21.	Particulate Loading: Inlet:	grain/scf Outlet: gra	ain/scf						

22. Type of Pollutant(s) to be collected (if particulate give specific type): Carbon black									
23. Is there any SO ₃ in the emission s	stream? [No □ Y	es SO	3 conte	ent:	ppmv			
24. Emission rate of pollutant (specify	-								
, ,		IN			OUT				
Pollutant		lb/hr grains		acf	lb/hr	grains/acf			
25. Complete the table: Particle		Size Distributior to Collector	at Inlet	Fraction Efficiency of Collector					
Particulate Size Range (microns)	Weig	Weight % for Size Range			Weight % for Size Range				
0 – 2									
2 – 4	No Particle size analysis has been conducted for this product								
4 – 6									
6 – 8									
8 – 10									
10 – 12									
12 – 16									
16 – 20									
20 – 30									
30 – 40									
40 – 50									
50 – 60									
60 – 70									
70 – 80									
80 – 90									
90 – 100									
>100									

26. How is filter monitored for indications of deterioration (e.g., broken bags)?
☐ Continuous Opacity ☑ Pressure Drop
☐ Alarms-Audible to Process Operator☐ Visual opacity readings, Frequency:
☐ Other, specify:
27. Describe any recording device and frequency of log entries:
Recordings have begun daily and turned in with the daily production logs
28. Describe any filter seeding being performed:
N/A
29. Describe any air pollution control device inlet and outlet gas conditioning processes (e.g., gas cooling, gas reheating, gas humidification):
N/A
30. Describe the collection material disposal system:
Product is collected from the bottom valve of the baghouse in drums which are capped and sealed. These drums are disposed of in a roll off dumpster.
31. Have you included <i>Baghouse Control Device</i> in the Emissions Points Data Summary Sheet? Yes

	g, and Testing reporting in order to demonstrate compliance with the e testing in order to demonstrate compliance with the
MONITORING:	RECORDKEEPING:
Daily recordings of the pressure drop gauge	Recording are now turned with the daily production logs
REPORTING:	TESTING:
As requested	As requested
	process parameters and ranges that are proposed to be
RECORDKEEPING: equipment or air control device REPORTING: Please describe the proposed in the	nstrate compliance with the operation of this process. The cordkeeping that will accompany the monitoring. The definition of this process equipment on air and emissions testing for this process equipment on air and emissions testing for this process equipment on air
pollution control device.	
33. Manufacturer's Guaranteed Capture Efficiency for e	each air pollutant.
No guarantee provided	
34. Manufacturer's Guaranteed Control Efficiency for ea	ach air pollutant.
99%	
35. Describe all operating ranges and maintenance pro	cedures required by Manufacturer to maintain warranty.
N/A	

90 – 100	
>100	

27. Describe any air pollution control device inlet and outlet gas conditioning processes (e.g., gas cooling, gas reheating, gas humidification): N/A					
28. Describe the collection material disposal system: Particulate matter will collect on the exhaust fan filte are soiled and restricting air flow.	rs. Fan filters will be inspected monthly and replaced if filters				
29. Have you included Other Collectores Control D	Device in the Emissions Points Data Summary Sheet?				
	ing, and Testing d reporting in order to demonstrate compliance with the ose testing in order to demonstrate compliance with the				
MONITORING: Inspected monthly by maintenance.	RECORDKEEPING: As requested.				
REPORTING: As requested.	TESTING: As requested.				
	e process parameters and ranges that are proposed to be nonstrate compliance with the operation of this process ce.				
REPORTING: Please describe any propo	d recordkeeping that will accompany the monitoring. seed emissions testing for this process equipment on air				
pollution control device. TESTING: Please describe any propo pollution control device.	osed emissions testing for this process equipment on air				
31. Manufacturer's Guaranteed Control Efficiency for	each air pollutant. N/A				
32. Manufacturer's Guaranteed Control Efficiency for	each air pollutant. N/A				
33. Describe all operating ranges and maintenance p N/A	procedures required by Manufacturer to maintain warranty.				

Attachment M Air Pollution Control Device Sheet

(OTHER COLLECTORS)

Control Device ID No. (must match Emission Units Table): N/A

Equipment Information

1.	Manufacturer: Airflow Incorporated Model No. Airflow Pleat		me: Exhaust Fan Filters el Filters (five total, one for each				
3.	 Provide diagram(s) of unit describing capture system with duct arrangement and size of duct, air volume, capacity, horsepower of movers. If applicable, state hood face velocity and hood collection efficiency. 						
4.	On a separate sheet(s) supply all data and calculate	tions used in selecting or d	esigning this collection device.				
5.	Provide a scale diagram of the control device show	ving internal construction.					
6.	Submit a schematic and diagram with dimensions	and flow rates.					
7. No	Guaranteed minimum collection efficiency for each guarantee.	pollutant collected:					
8.	Attached efficiency curve and/or other efficiency in	formation.					
9.	Design inlet volume: N/A SCFM	1 10. Capacity:N/A					
N/A	. Indicate the liquid flow rate and describe equipment A Attach any additional data including auxiliary eq control equipment.		·				
	Description of method of handling the collected ma lters are soiled and restricting proper air flow, work						
	Gas Stream	Characteristics					
14.	Are halogenated organics present? Are particulates present? Are metals present?	 ☐ Yes ☐ Yes ☐ No ☐ Yes ☐ No 					
15.	Inlet Emission stream parameters:	Maximum	Typical				
	Pressure (mmHg):						
	Heat Content (BTU/scf):						
	Oxygen Content (%):						
	Moisture Content (%):						
	Relative Humidity (%):						

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16.	Type of pollutant(s)	controlled:	□ SO _x	Odor			
	Particulate (type)		bon, PM fugitive	_		Other	
17.	Inlet gas velocity:		ft/sec	18. Pollutant	specific gravity:		
19.	Gas flow into the col ACF @	lector: °F and	PSIA	20. Gas strea	im temperature: Inlet: Outlet:		°F °F
21.	Gas flow rate: Design Maximum: Average Expected:		ACFM ACFM	22. Particulat	e Grain Loadinç Inlet: Outlet:	g in grains/scf:	
23.	Emission rate of eac	h pollutant (speci	fy) into and out	of collector:			
	Pollutant IN Po		lutant			ollutant	Control
		lb/hr	grains/acf	Capture Efficiency %	lb/hr	grains/acf	Efficiency %
	A Fugitive PM	2.5		unknown	1.1		unknown
	В						
	С						
	D						
	Е						
24.	Dimensions of stack:	: Heigl	ht	ft.	Diameter		ft.
	 Supply a curve showing proposed collection efficiency versus gas volume from 25 to 130 percent of design rating of collector. 						
25.		wing proposed co	mection emicien	ersus gas	voidine nom 2	5 to 130 perce	in or design

Particulate Distribution

26. Complete the table:	Particle Size Distribution at Inlet	Fraction Efficiency of Collector
	to Collector	
Particulate Size Range (microns)	Weight % for Size Range	Weight % for Size Range
0 – 2		
2 – 4	No particle size analysis has been	
	conducted for this	
	product	
4 – 6		
6 – 8		
8 – 10		
10 – 12		
12 – 16		
16 – 20		
20 – 30		
30 – 40		
40 – 50		
50 – 60		
60 – 70		
70 – 80		
80 – 90		

90 – 100	
>100	

27. Describe any air pollution control device inlet and outlet gas conditioning processes (e.g., gas cooling, gas reheating, gas humidification): N/A					
		an filters will be inspected monthly and replaced if filters			
29. Have you included O	ther Collectores Control Device	e in the Emissions Points Data Summary Sheet?			
Please propose mor	parameters. Please propose	and Testing eporting in order to demonstrate compliance with the testing in order to demonstrate compliance with the			
MONITORING: Inspected monthly by mai	intenance.	RECORDKEEPING: As requested.			
REPORTING: As requested.		TESTING: As requested.			
n e	monitored in order to demons equipment or air control device.	ocess parameters and ranges that are proposed to be strate compliance with the operation of this process cordkeeping that will accompany the monitoring.			
REPORTING: F		emissions testing for this process equipment on air			
TESTING: F		emissions testing for this process equipment on air			
31. Manufacturer's Guara	anteed Control Efficiency for eac	h air pollutant. N/A			
32. Manufacturer's Guara	anteed Control Efficiency for eac	h air pollutant. N/A			
	Iters are located on the warehou	edures required by Manufacturer to maintain warranty. use exhaust fans which are not near the emissions units			

Features:

Available in economy, standard and high capacity versions

26 point high wet strength clay coated kraft board die cut frame

Radial pleat design

Media is 100% synthetic fibers - water and bacteria resistant

Media bonded to expanded metal support grid using water resistant adhesive

Media bonded to frame using water resistant adhesive

Also available MERV 8 - Series M8, MERV 11 - Series M11 and Series SS with self supporting media element

UL Class II rated as per UL 900 standard





Economy, Standard and High Capacity medium efficiency pleated panel filters

AIRFLOW PLEAT extended surface pleated panel filters are designed for use in air filtration systems and equipment, as stand alone basic efficiency products or as pre-filters to higher efficiency bag, rigid box or cell type filter.

The 26 point clay coated, kraft-board die cut frame, diagonal and horizontal support members, radial wedge design and expanded metal media support create one of the most rigid filters of its type in the industry.

The media pack, comprised of 100% polypropylene fibers, is bonded to the inside perimeter of the enclosure frame by a moisture resistant adhesive, providing a continuous and positive seal.

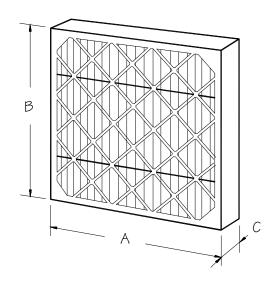
The standard offering is rated by Underwriters Laboratories as Class II, per UL Standard 900.

The AIRFLOW PLEAT is designed so as to work suitably within built up filter banks and/or side access systems. Available in nominal 1", 2" and 4" depths and 50 standard size offerings, this product is designed to fit most industrial and commercial applications with little or no system modification.

Rigid construction, extended surface and long service life are features and benefits which make the AIRFLOW PLEAT an excellent option for meeting the requirements today's filtration market.

AIRFLOW PLEAT

The Airflow Pleat is made from 100% synthetic media bonded with a water resistant adhesive to an expanded metal support grid and attached to a 26 point high wet strength clay-coated kraft board frame using water-resistant adhesive. The Airflow Pleat is available in standard sizes below in Economy - AFP1000, Standard - APF2000 and High - AFP3000 capacity in medium efficiency.

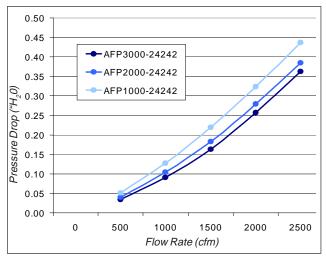


Size Chart - AFP1000, AFP2000, AFP3000

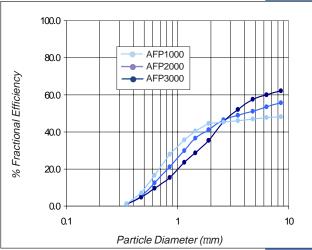
Model Number	Width "A"	Height "B"	Depth "C"
AFPx000-5501	24-1/2"	24-1/2"	3/4", 1-3/4", 3-3/4" *
AFPx000-4401	23-3/8"	23-3/8"	3/4", 1-3/4", 3-3/4" *
AFPx000-0501	19-1/2"	24-1/2"	3/4", 1-3/4", 3-3/4" *
AFPx000-0401	19-1/2"	23-3/8"	3/4", 1-3/4", 3-3/4" *
AFPx000-0001	19-1/2"	19-1/2"	3/4", 1-3/4", 3-3/4" *
AFPx000-8501	17-3/8"	24-1/2"	3/4", 1-3/4", 3-3/4" *
AFPx000-8401	17-3/8"	23-3/8"	3/4", 1-3/4", 3-3/4" *
AFPx000-6501	15-1/2"	24-1/2"	3/4", 1-3/4", 3-3/4" *
AFPx000-6001	15-1/2"	19-1/2"	3/4", 1-3/4", 3-3/4" *
AFPx000-2401	11-3/8"	23-3/8"	3/4", 1-3/4", 3-3/4" *
AFPx000-2001	11-3/8"	19-1/2"	3/4", 1-3/4", 3-3/4" *

^{*} Economy Grade AFP1000 is available in 2" and 4" depths only.

Pressure Drop vs. Flow Rate



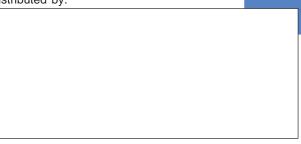
Efficiency vs. Particle Diameter





100 Oak Tree Drive Selma, North Carolina 27576 (919) 975-0240 Tel (919) 975-0250 Fax

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ATTACHMENT N

Attachment N - Calculations, Controlled

1\$	Bulk Tanker Truck Unloading						
		Transfer Rate			Control Device		
Transfer Point	Description	TPH	TPY	Control Device	Efficiency	PM lb/Hr	PM TPY
TP1	Hose to Hopper	10.7	27,820	Baghouse - 2C	99	5.99	7.79
TP2	Hopper to Super Sack	10.7	27,820	Baghouse - 2C	99	5.99	7.79
Total						5.992	7.790

1S design capacity limit on operation: 10.7 tons of material / hr and 27,820 tons of material / yr

Only one tanker truck transfer point shall be in operation at one time, therefore total emissions are based on one transfer point

2S	Bulk Tanker Truck Loading						
		Transfer Rate			Control Device		
Transfer Point	Description	TPH	TPY	Control Device	Efficiency	PM lb/Hr	PM TPY
TP1	Sack to Funnel	10.7	27 920	Hood and Baghouse - 1C	99	5.99	7.79
				ğ			
TP2	Funnel to Tanker	10.7	27,820	Hood and Baghouse - 1C	99	5.99	7.79
Total						5.992	7.790

2S design capacity limit on operation: 10.7 tons of material / hr and 27,820 tons of material / yr

Only one tanker truck transfer point shall be in operation at one time, therefore total emissions are based on one transfer point

3S	Small Bagging (Bagging Machine 3)						
Transfer Point	Description	Transfer Rate TPH	TPY	Control Device	Control Device Efficiency	PM lb/Hr	PM TPY
TP1	Sack to Tote	0.75	6570	Baghouse - 1C	99	0.42	1.840
TP2	Tote to Hopper	0.75	6570	Baghouse - 1C	99	0.42	1.840
TP3	Hopper to Bag	0.75	6570	Baghouse - 1C	99	0.42	1.840
Total						1.260	5.519

3S design capacity limit on operation: 0.75 tons of material / hr and 6,570 tons of material / yr

4S	Pneumatic Railcar Loading/Unloading						
		Transfer Rate			Control Device		
Transfer Point	Description	TPH	TPY	Control Device	Efficiency	PM lb/Hr	PM TPY
TP1	Trailers to Rail Car, or Rail Car to Hopper	10.7	1920	Baghouse - 2C	99	5.992	0.538
Total						5.992	0.538

4S design capacity limit on operation: 10.7 tons of material / hr and 1,920 tons of material / yr

5S	Open Dump Truck Loading						
		Transfer Rate			Control Device		
Transfer Point	Description	TPH	TPY	Control Device	Efficiency	PM lb/Hr	PM TPY
TP1	FIBC to Dump Truck	40	13,000	Baghouse - 1C, and truck cover	99	22.4	3.640
Total						22.400	3.640

5S design capacity limit on operation: 40 tons of material / hr and 13,000 tons/yr

See Attachment K for General Fugitive Emissions and Haul Road Fugitive Emissions - using Engineering Estimate	PM TPY:	2.590

27.87 PM TPY Total

 $Note: Calculations \ use \ AP-42, Chapter \ 10-7, Table \ 10.7-1 \ Charcoal \ Briquetting \ 56 \ lb/ton \ (PM \ Emission \ Factor)$

Attachment N - Calculations, Uncontrolled

1\$	Bulk Tanker Truck Unloading				
Transfer Point	Description	Transfer Rate TPH	TPY	PM lb/Hr	PM TPY
TP1 TP2	Hose to Hopper Hopper to Super Sack	10.7 10.7	27,820 27,820	599.20 599.20	778.96 778.96
Total			7020	599.20	778.960

1S design capacity limit on operation: 10.7 tons of material / hr and 27,820 tons of material / yr
Only one tanker truck transfer point shall be in operation at one time, therefore total emissions are based on one transfer point

2S	Bulk Tanker Truck Loading				
Transfer Point	Description	Transfer Rate TPH	TPY	PM lb/Hr	PM TPY
TP1	Sack to Funnel	10.7	27,820	599.20	778.96
TP2	Funnel to Tanker	10.7	27,820	599.20	778.96
Total				599.20	778.960

2S design capacity limit on operation: 10.7 tons of material / hr and 27,820 tons of material / yr

Only one tanker truck transfer point shall be in operation at one time, therefore total emissions are based on one transfer point

3S	Small Bagging (Bagging Machine 3)				
Transfer Point	Description	Transfer Rate TPH	TPY	PM lb/Hr	PM TPY
TP1	Sack to Tote	0.75	6570	42	183.960
TP2	Tote to Hopper	0.75	6570	42	183.960
TP3	Hopper to Bag	0.75	6570	42	183.960
Total				126.00	551.880

3S design capacity limit on operation: 0.75 tons of material / hr and 6,570 tons of material / yr

4S	Pneumatic Railcar Loading	Pneumatic Railcar Loading/Unloading				
Transfer Point	Description	Transfer Rate TPH	TPY	PM lb/Hr	PM TPY	
TP1	Trailers to Rail Car	10.7	1920	599.2	53.760	
Total				599.20	53.760	

4S design capacity limit on operation: 10.7 tons of material / hr and 1,920 tons of material / yr

5S	Open Dump Truck Loading				
Transfer Point	Description	Transfer Rate TPH	TPY	PM lb/Hr	PM TPY
TP1	FIBC to Dump Truck	40	13,000	2240	364.000
Total				2240.00	364.00

5S design capacity limit on operation: 40 tons of material / hr and 13,000 tons/yr

See Attachment K for General Fugitive Emissions and Haul Road
Fugitive Emissions - using engineering estimate and no control PM TPY: 4.410

2531.97 PM TPY Total

Note: Calculations use AP-42, Chapter 10-7, Table 10.7-1 Charcoal Briquetting 56 lb/ton (PM Emission Factor)

ATTACHMENT P

AIR QUALITY PERMIT NOTICE Notice of Application

Notice is given that REO Processing Inc. has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Modification to the facility's Construction Permit for a Small bagging, Bulk truck loading and unloading located on 20 26th ST Huntington WV 25703 in Cabell County, West Virginia. The latitude and longitude coordinates are: Latitude: 38.43304, Longitude -82.40988.

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be: Particulate Matter (PM) 27.87 TPY.

The modification is planned to be in effect on or about the 1st day of April, 2024. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice. Written comments will also be received via email at DEPAirQualityPermitting@WV.gov.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 41281, during normal business hours.

Dated this the 11th day of April, 2024.

By: REO Processing Inc.

Daniel Isaacs
Director of Safety & Quality
221 Airport Industrial Park Road
Parkersburg, WV 26104

ADDENDUM -DUST CONTROL PLAN

DRAFT

Dust Control Plan Rev 4

REO Processing, Inc. 20 26th Street Huntington, West Virginia

Prepared for:

REO Processing, Inc. Waynesboro, Virginia

February 2024

TABLE OF CONTENTS

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2.	SITE DESCRIPTION	. ′
3.	POTENTIAL FUGITIVE DUST EMISSION SOURCES	. 2
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7	CORRECTIVE ACTIONS	_

Appendices

Appendix A - Facility Layout

 $Appendix\,B-Inspection\,Forms$

1. INTRODUCTION

This Dust Control Plan has been prepared to address the control of fugitive and airborne dust emissions from the REO Processing, Inc. facility located in Huntington, West Virginia (the Site). This Plan complies with the West Virginia Legislative Rule 45CSR17 ("Rule 17"), "To Prevent and Control Particulate Matter Air Pollution from Materials Handling, Preparation, Storage and Other Sources of Fugitive Particulate Matter." The primary objective of this plan is to present a strategy for controlling, to the greatest extent practicable, fugitive or airborne dust emissions at the Site through specific source identification and activities that have a high potential to produce or generate fugitive or airborne dust emissions. This plan describes the engineering and administrative controls necessary to minimize and control dust emissions from these sources and activities.

The plan will be modified and/or revised as site conditions change or changes in dust control strategy arise. This plan will be implemented in conjunction with the project Site Health and Safety Plan.

2. SITE DESCRIPTION/BACKGROUND

REO Processing, Inc. operates a warehouse and re-packaging plant at 20 26th Street, Huntington, West Virginia. The Site stores, re-packages, and loads activated carbon by emptying super-sacks to trailers.

Bulk Truck filling-Process Description

Depending on the size of the customer order will depend on how much material is staged for loading. This can be in 1000 or 2000 lb Sacks. Sacks are verified for correct Batches and a funnel is placed on the Bulk Truck Trailer Filling ports on top the trailer and dust collector hose (the hose is attached to a cover that is sealed to the hatch) attached to unused port on trailer. Once Sacks are verified correct, utilizing a Forklift the sacks are then picked up from the lifting ears and brought over and centered above the funnel placed on top the trailer. Once centered correctly, an employee then opens the bottom of the sack to allow the material to empty into the bulk trailer.

Once the bag is opened and material is flowing, the bottom of the sack is lowered down into the funnel to reduce dust escaping. Once the sack is empty, the spout is then re-tied to prevent any carbon from coming out of the sack when removing from the funnel, the forklift driver then returns, and employee removes the empty sack to discard and the driver repeats until all sacks are emptied into the trailer. Once all is completed, the funnel is removed and the trailer fill ports are closed, and the truck is verified for cleanliness.

Bulk Dump Truck filling-Process Description

Depending on the size of the customer order will depend on how much material is staged for loading. This can be in 1000 or 2000 lb Sacks. Sacks are verified for correct batches and cover is placed on the bulk dump truck. The cover has multiple filling ports on top and dust collector hose is positioned close the filling port. Once Sacks are verified correct, utilizing a Forklift the sacks are then picked up from the lifting ears and brought over and centered over the filling port, once centered correctly, an employee then opens the bottom of the sack to allow the material to empty into the dump truck.

Once the sack is empty, the spout is then re-tied to prevent any carbon from coming out of the sack. The forklift driver then returns, and employee removes the empty sack to discard and the driver repeats until all sacks are emptied into the trailer.

Once all is completed, the cover is removed and the dump trailer tarp is positioned over the load.

Bulk Truck Unloading-Process Description

Depending on the size of the customer order will depend on how much material is available for unloading. The trailer is positioned to access the ports with pneumatic pumps. Seals are verified, hoses are attached and the pumps are activated pulling the material from inside the bulk truck to a funnel shaped hopper just inside the building. The machine weighs the material to designated weight and then releases material into the super sack that is attached to the neck of the funnel hopper. Once Sack if filled, operator seals the sack, labels it and sets it aside until to order is complete. The filled sacks are then warehoused until the customer requests them. Dust collection is in place at the sack fill station.

Small Bagging-Process Description

Material is staged and verified to be correct. Once verified the 1000 or 2000lb Sacks (depending on customer order) are then transferred into a tote bin. Once tote is loaded, the tote is then raised above the bagger and placed on a stand. The Operator will then open the valve on the bottom of the tote and the material will flow into the bagger hopper.

When the bagger is loaded the operator then places a bag over the spout and actuates the filler. The machine fills the bags to the correct weight and then the bags are sealed and palletized. Once a full pallet is completed, the pallet is set aside for inspection. Dust collection is in use at the bag filling station.

3. POTENTIAL FUGITIVE DUST SOURCES AND CONTROLS

The primary contaminant of concern, with respect to fugitive dust emissions at the Site, is black particulate matter (PM). The following project work areas/tasks have been identified as potential sources of PM emissions and are expanded upon further below:

Source	Controls
Exhaust fans located on the roof and eastern exterior wall of the warehouse building	 Visual inspection for PM accumulation Filters Preventive maintenance
Exterior truck loading/unloading area and small bag filling areas	 Baghouse Completed under cover Under a hood connected to Bag House to create negative pressure Visual inspection of hoses and valves Preventive maintenance
Exterior railcar loading/unloading area	Dust collection systemPreventive maintenance
Interior super sack filling area	 Baghouse Completed in enclosed building Visual inspection for PM accumulation Preventive maintenance
Plant Grounds	 Daily cleanup Visual Inspection Immediate work stoppage on spills greater than 5lbs, with immediate cleanup actions

Preventive maintenance of the fugitive dust equipment is completed by following the manufacturer's recommended operations and maintenance plans associated with the equipment. Contractors or Site employees complete these tasks as needed. Tasks may include:

- Inspection and/or repair of the structure integrity including vents, stacks, hoods
- Inspection and/or repair of the filtration systems such as motors, belts, fans, filters, etc.
- Review and/or measurement of air flow velocity
- Inspection and/or repair of measurement equipment such as magnehelic meters, flow meters, etc.

Records of these preventive maintenance actions are maintained by the Plant Manager.

Small Bagging - Dust collection is used in this process and is completed entirely indoors to prevent material from leaving the site.

Bulk Truck Unloading/Bulk Sack filling – Dust collection is used in this process and all sources of emissions are indoors to prevent material from leaving the site.

Bulk truck Loading - Dust collection is used on this process, this process is performed outdoors, however it is completed under a hood connected to a bag house to prevent emissions (fabricated and installed by 3/29/2024). One area for possible dust escaping is the breezeway between building which REO has installed dust netting to prevent dust from escaping this area.

Exhaust Fans in main warehouse – The main warehouse has 6 Exhaust fans, 2 which exhaust out of the roof and 3 which exhaust out of the rear wall –

- Filter frames and filters connected to each exhaust fan.
- Filters are to be Pleated filters with a Merv 8 rating.
- Filters are to be entered into REO's E-maint program which will send out monthly Preventative Maintenance work orders for filter inspections monthly. Inspections to be completed by Maintenance personnel, Plant Manager or their designee.
- If filters are soiled and restricting proper air flow, Work orders are to be entered into E-maint for replacement.

Vibration of Super Sacks – REO is currently using a vibrator mounted on the outside of the hopper which the material is transferred through to keep the material fluidized this reduces the amount of pressurization. Any dust escaping the bag is under the hood.

Plant Grounds – The bulk truck loading area is to be cleaned daily to prevent material escaping facility on vehicles. Any spills larger than 5lbs, work is to stop, and immediate spill cleanup is to be

DUST CONTROL PLAN REO PROCESSING, INC. Huntington, West Virginia

completed before continuing process to prevent material to become excessive in the loading area which could lead to escape of the facility. This requirement is for all processing/handling of materials at REO facility.

In addition, residual material inside the building and associated structures that has the potential to become airborne fugitive PM will be addressed through the completion of daily walkthroughs that will include housekeeping inspections to facilitate cleaning needs. REO personnel will address the housekeeping through this daily inspection and REO can begin a cleaning regiment from findings.

4. VERIFICATION OF CONTROLS

The following methods will be used to verify the working condition of dust control measures. Forms can be found in Appendix B.

Source	Verification Method	
Exhaust fans located on the roof and eastern exterior wall of the warehouse building	Monthly inspection	
Exterior truck loading/unloading area and small bag	Weekly inspection	
filling areas	Monthly inspection	
Exterior railcar loading/unloading area	Monthly inspection	
Exterior super sack filling area	Monthly inspection	
Plant Grounds	Daily inspection	
	Any spill greater than 5lbs. requires a stop work action until the spill is cleaned up	

In addition, the listed items will be incorporated into the daily walkthrough form where blank copies will be placed in the warehouse and bulk loading area for any employees to note any process/facility issues or concerns. These completed forms are to be given to the Plant Manager for review and to address any issues/concerns immediately.

5 TRAINING

Prior to the implementation of this Dust Control Plan, REO will conduct training for REO personnel. REO will provide a large-group training sessions before each work crew begins work with the different fugitive source areas with periodic follow-up training for groups of newly assigned personnel. The training sessions will include a review of the operation and maintenance procedures for each fugitive emissions source area, reporting/record keeping requirements, and potential corrective actions.

Training to the Dust Control Plan and all required documents is to be performed on hire of new employees and continued on a semi-annual basis. This re-occurring training is to be scheduled and set by the Plant Manager and the Director of Safety & Quality.

6 RECORDKEEPING

The Director of Safety and Quality and Plant Manager, will be responsible for the implementation of the Dust Control Plan. Records and inspection logs will include documentation of all inspections, maintenance and completed work practices (including the name of the person conducting the activity), weather conditions, time of observation, area or operation observed, and corrective actions taken, if any.

A documented daily walkthrough by the Plant Manager or their designee will be performed, and any issues or concerns are to be addressed immediately by supervision. Form generation and implementation to be completed by 2/7/2024. This daily walkthrough will include housekeeping inspections to facilitate cleaning needs.

This daily walkthrough form will be placed in the warehouse and bulk loading area for any employees to note any process/facility issues or concerns. These completed forms are to be given to the Plant Manager for review and to address any issues/concerns immediately.

7 REPORTING REQUIREMENTS

Deviations from this Dust Control Plan and/or corrective actions required to address known episodes of fugitive dust emissions beyond the Site perimeter will be reported in writing to the DAQ Director

within ten (10) days of occurrence. When fugitive emissions are noted, as part of the written notification to the DAQ Director the following items should be included: what emission(s) were observed; when the emissions were observed; and what corrective actions were implemented. It should be noted that once the facility completes the DAQ permit application, reporting requirements may be subject to those requirements within the permit.

Appendix A - Facility Layout



SUBJECT PROPERTY BOUNDARY WAREHOUSE EXTERIOR VENT

SCALE IN FEET

50 100 MAP DATA ©.2023 GOOGLE IDATE 12/6/2023 IscALE AS SHOWN ICAD NO. RE023011452b

PRJ NO.RE0002-0204012-23011452

FACILITY LAYOUT

REO PROCESSING, INC. 20 26th STREET HUNTINGTON, WEST VIRGINIA



Appendix B – Inspection Forms

REO PROCESSING, INC. MONTHLY INSPECTION FORM – DUST CONTROL PLAN		
Date/Time:	Weather Conditions:	
Inspector (Name and Title):	Inspector Signature:	

Areas Inspected	Dust Control Measure	Observation	Corrective Actions Taken
Truck	Are the baghouse hoses in good working order		
Loading/Unloading	(e.g., no cracks, structurally sound)?		
	Are the baghouse valves in good working order		
	(e.g., able to be shut)?		
	Are the baghouse doors in good working order		
	(e.g., seals/gaskets in place and working)?		
	Do the filters require change out?		
	Are there visible emissions coming from the		
	process?		
	Review the previous months weekly inspections		
	- have corrective actions been completed?		
Super Sak Filling	Is the filtration system in good working order		
Area	(e.g., running, filters in place and properly		
	seated)?		
	Do the filters require change out?		
	Are there visible emissions coming from the		
	process?		
Warehouse	Are the fans in good working order (e.g., running,		
Exhaust Fans (roof)	filters in place and properly seated)?		
	Do the filters require change out?		
	Are there visible emissions coming from the		
	process?		
	Is there evidence of dust build up near the		
	exhaust fans ?		

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Areas Inspected	Dust Control Measure	Observation	Corrective Actions Taken
W	Are the fore in good working order (or groupsing		
Warehouse	Are the fans in good working order (e.g., running,		
Exhaust Fans	filters in place and properly seated)?		
(eastern)	Do the filters require change out?		
	Are there visible emissions coming from the		
	process?		
	Is there evidence of dust build up near the		
	exhaust fans?		
Exterior Railcar	Is the dust collection system in good working		
Filling (if used in	order (e.g., running, filters in place and properly		
the month)	seated)?		
	Do the filters require change out?		
	Is there evidence of dust build up near the area?		
	Is the dust collection drum more than 75% full		
	and require changing?		

Updated December 2023

REO PROCESSING, INC. WEEKLY INSPECTION FORM – DUST CONTROL PLAN		
Date/Time:	Weather Conditions:	
Inspector (Name and Title):	Inspector Signature:	

Areas Inspected	Dust Control Measure	Observation	Corrective Actions Taken
Truck Loading/Unloading	Differential pressure reading in the bag house		
	Any pressure reading 2.9 or above warrants a filter changeout.		
	Are the dust level sensor's in the small bag filling area in good working order (e.g., running, readings are below an action level)?		
	Are there visible emissions coming from the process?		

Updated December 2023

35A. Certification of Information. To certify 2.28) or Authorized Representative shall chec		Official (per 45CSR§13-2.22 and 45CSR§30-	
Certification of Truth, Accuracy, and Completeness			
	pended hereto, is true, accurate, and c esponsibility for the construction, modi nce with this application and any amen ity permit issued in accordance with thi of Air Quality and W.Va. Code § 22-5-1 Official or Authorized Representative, the	omplete based on information and belief after fication and/or relocation and operation of the idments thereto, as well as the Department of	
that, based on information and belief formed a compliance with all applicable requirements. SIGNATURE		oot achieved, I, the undersigned hereby certify nant sources identified in this application are in DATE: 3/28/2024 (Please use blue ink)	
35B. Printed name of signee: Gregg Frazier		35C. Title: President	
35D. E-mail: gregg.frazier@reoprocessing.com	36E. Phone: 937-545-8521	36F. FAX:	
36A. Printed name of contact person (if different from above):		36B. Title:	
36C. E-mail:	36D. Phone:	36E. FAX:	
PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION: Attachment A: Business Certificate Attachment B: Map(s) Attachment B: Map(s) Attachment C: Installation and Start Up Schedule Attachment D: Regulatory Discussion Attachment D: Regulatory Discussion Attachment E: Plot Plan Attachment F: Detailed Process Flow Diagram(s) Attachment F: Detailed Process Description Attachment G: Process Description Attachment H: Material Safety Data Sheets (MSDS) Attachment I: Emission Units Table Attachment S: Title V Permit Revision Information Attachment J: Emission Points Data Summary Sheet Please mail an original and three (3) copies of the complete permit application. Please DO NOT fax permit applications.			
□ NSR permit writer should notify Title □ For Title V Significant Modifications process □ NSR permit writer should notify a Title □ Public notice should reference both □ EPA has 45 day review period of a december 1.25	e V Permitting Group and: V permit writer of draft permit, propriate notification to EPA and affected V permit writer of draft permit. Sed in parallel with NSR Permit revision: Sele V permit writer of draft permit, 45CSR13 and Title V permits, Fraft permit.	d states within 5 days of receipt, Section of DAQ's website, or requested by all only.	