Division of Air Quality Permit Application Submittal

Please find attached a permit application for : REO Processing Inc., Huntington, WV

[Company Name; Facility Location]

- DAQ Facility ID (for existing facilities only): 011-00241
- 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: Gregg Frazier
    - Email: gregg.frazier@reoprocessing.com
    - Phone Number: 937-545-8521
  - ☑ Company Contact
    - Name: Gregg Frazier
    - Email: gregg.frazier@reoprocessing.com
    - Phone Number: 937-545-8521
  - ☑ Consultant
    - Name: Lisa Schweder
    - Email: lisa.schweder@terracon.com
    - Phone Number: 6142560363

Table of Contents

REO Processing Air Permit Application
April 2024

APPLICATION

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street, SE
Charleston, WV 25304
(304) 926-0475
www.dep.wv.gov/daq

APPLICATION FOR NSR PERMIT AND TITLE V PERMIT REVISION (OPTIONAL)

PLEASE CHECK ALL THAT APPLY TO **NSR (45CSR13)** (IF KNOWN):

☒ **CONSTRUCTION** ☐ **MODIFICATION** ☐ **RELOCATION**
☐ **CLASS I ADMINISTRATIVE UPDATE** ☐ **TEMPORARY**
☐ **CLASS II ADMINISTRATIVE UPDATE** ☐ **AFTER-THE-FACT**

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

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant *(as registered with the WV Secretary of State's Office):*
REO Processing Inc.

2. Federal Employer ID No. ***(FEIN):***
81-4277734

3. Name of facility *(if different from above):*

4. The applicant is the:
☐ **OWNER** ☐ **OPERATOR** ☒ **BOTH**

5A. Applicant's mailing address:
221 Industrial Park Rd Parkersburg WV, 26104

5B. Facility's present physical address:
20 26th St Huntington WV 25703

6. **West Virginia Business Registration.** Is the applicant a resident of the State of West Virginia? ☒ **YES** ☐ **NO**

- If **YES,** provide a copy of the **Certificate of Incorporation/Organization/Limited Partnership** (one page) including any name change amendments or other Business Registration Certificate as **Attachment A.**
- If **NO,** provide a copy of the **Certificate of Authority/Authority of L.L.C./Registration** (one page) including any name change amendments or other Business Certificate as **Attachment A.**

7. If applicant is a subsidiary corporation, please provide the name of parent corporation:

8. Does the applicant own, lease, have an option to buy or otherwise have control of the *proposed site?* ☒ **YES** ☐ **NO**

- If **YES,** please explain: Own

- If **NO,** you are not eligible for a permit for this source.

9. 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.

10. 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 found under the Permitting Section of DAQ's website, or requested by phone.

12A.

- For **Modifications, Administrative Updates** or **Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- For **Construction** or **Relocation permits,** please provide directions to the *proposed new site location* from the nearest state road. Include a **MAP** as **Attachment B**.

Located approximately 530 feet south of the Ohio River, on the east side of 26th Street and north of Guyan Avenue.

12.B. New site address (if applicable):	12C. Nearest city or town: Huntington	12D. County: 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 facility:
To Permit the repackaging of Activated Carbon. Permit modification will include Dust Control Plan, truck loading process changes, and fan filters.

14A. Provide the date of anticipated installation or change: 03/29/2024 – If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: / /	14B. Date of anticipated Start-Up if a permit is granted: 03/ 29 /2024

14C. Provide a **Schedule** of the planned **Installation** of/**Change** to and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
Hours Per Day 12 Days Per Week 6 Weeks Per Year 52

16. Is demolition or physical renovation at an existing facility involved? ☐ **YES** ☒ **NO**

17**. Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (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 applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance *(if known).* Provide this information as **Attachment D.**

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

20. Include a **Table of Contents** as the first page of your application package.

21. Provide a **Plot Plan,** e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to ***Plot Plan Guidance***) **.**

– Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).

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 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.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H.**

– For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I.**

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J.**

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K.**

28. Check all applicable **Emissions Unit Data Sheets** listed below:

☐ Bulk Liquid Transfer Operations	☒ Haul Road Emissions	☐ Quarry
☐ Chemical Processes	☐ Hot Mix Asphalt Plant	☐ Solid Materials Sizing, Handling and Storage Facilities
☐ Concrete Batch Plant	☐ Incinerator	
☐ Grey Iron and Steel Foundry	☐ Indirect Heat Exchanger	☐ Storage Tanks

☒ General Emission Unit, specify Bulk truck loading, bulk truck unloading, small bagging station, railcar loading/unloading, open dump truck loading, railcar to tanker truck loading, and tanker truck to railcar loading.

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L.**

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

☐ Absorption Systems	☒ Baghouse	☐ Flare
☐ Adsorption Systems	☐ Condenser	☐ Mechanical Collector
☐ Afterburner	☐ Electrostatic Precipitator	☐ Wet Collecting System

☒ Other Collectors, specify Fan Filters

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M.**

30. Provide all **Supporting Emissions Calculations** as **Attachment N,** or attach the calculations directly to the forms listed in Items 28 through 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 whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and ***Example Legal Advertisement*** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33**. Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

☐ **YES** ☒ **NO**

➢ If **YES,** identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's ***"Precautionary Notice – Claims of Confidentiality"*** guidance found in the ***General Instructions*** as **Attachment Q.**

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

☐ Authority of Corporation or Other Business Entity	☐ Authority of Partnership
☐ Authority of Governmental Agency	☐ Authority of Limited Partnership

Submit completed and signed **Authority Form** as **Attachment R.**

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned ☒ **Responsible Official** / ☐ **Authorized Representative,** hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE _____ *(Please use blue ink)* DATE: 4/12/2024 *(Please use blue ink)*

35B. Printed name of signee: Gregg Frazier		35C. Title: President
35D. E-mail: Gregg.frazier@reoprocessing.com	36E. Phone: 304-464-5444	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 C: Installation and Start Up Schedule**
- ☐ **Attachment D: Regulatory Discussion**
- ☒ **Attachment E: Plot Plan**
- ☒ **Attachment F: Detailed Process Flow Diagram(s)**
- ☒ **Attachment G: Process Description**
- ☒ **Attachment H: Material Safety Data Sheets (MSDS)**
- ☒ **Attachment I: Emission Units Table**
- ☒ **Attachment J: Emission Points Data Summary Sheet**
- ☒ **Attachment K: Fugitive Emissions Data Summary Sheet**
- ☒ **Attachment L: Emissions Unit Data Sheet(s)**
- ☒ **Attachment M: Air Pollution Control Device Sheet(s)**
- ☒ **Attachment N: Supporting Emissions Calculations**
- ☐ **Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans**
- ☒ **Attachment P: Public Notice**
- ☐ **Attachment Q: Business Confidential Claims**
- ☐ **Attachment R: Authority Forms**
- ☐ **Attachment S: Title V Permit Revision Information**
- ☐ **Application Fee**

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- ☐ ***Forward 1 copy of the application to the Title V Permitting Group and:***
- ☐ ***For Title V Administrative Amendments:***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit,***
- ☐ ***For Title V Minor Modifications:***
  - ☐ ***Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit.***
- ☐ ***For Title V Significant Modifications processed in parallel with NSR Permit revision:***
  - ☐ ***NSR permit writer should notify a Title V permit writer of draft permit,***
  - ☐ ***Public notice should reference both 45CSR13 and Title V permits,***
  - ☐ ***EPA has 45 day review period of a draft permit.***

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

ATTACHMENT A

State of West Virginia

Certificate

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

December 28, 2018

Mac Warner

Secretary of State

FILED

DEC 28 2018

IN THE OFFICE OF SECRETARY OF STATE

ARTICLES OF MERGER
OF
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.

Pursuant to the provisions of West Virginia Code § 31D-11-1106, the undersigned entities (the "*Parties*") 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 "*Parties*").

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:

1. 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.

2. 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.

3. 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.

5. 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.

7. 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

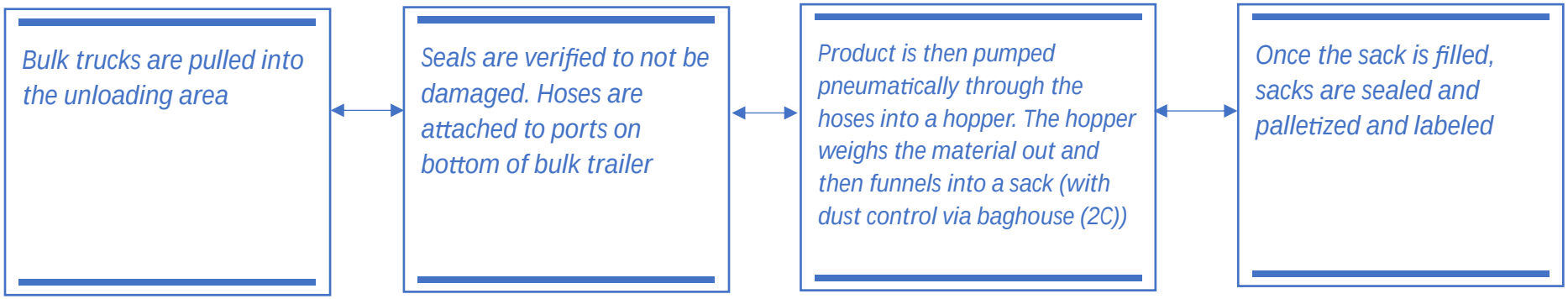
REO Processing

20 26th St Huntington, WV 25703

UTM-Northing (KM): 4253322.1343248
UTM-Easting (KM): 373842.353341909
Elevation: 550-580 feet

ATTACHMENT F, G

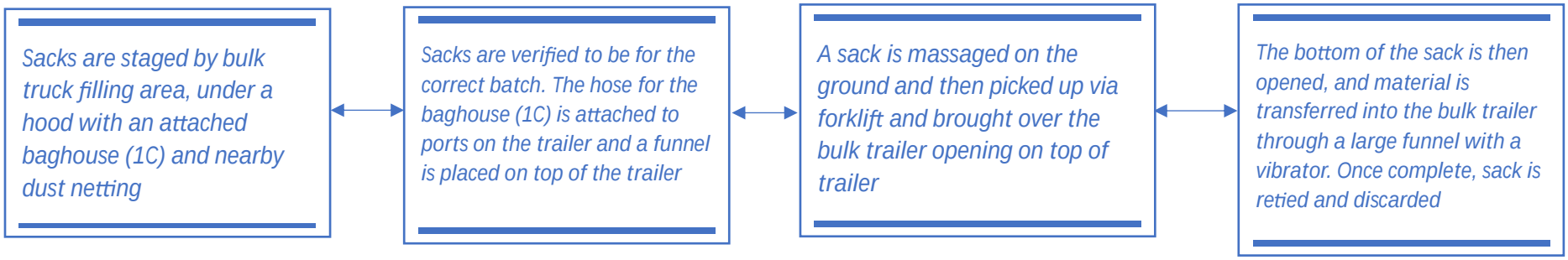
Appendix F – Process Flow Diagram for Bulk Truck Unloading (1S)



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).

APPENDIX F – Process Flow Diagram for Bulk Tanker Truck Loading (2S)



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.

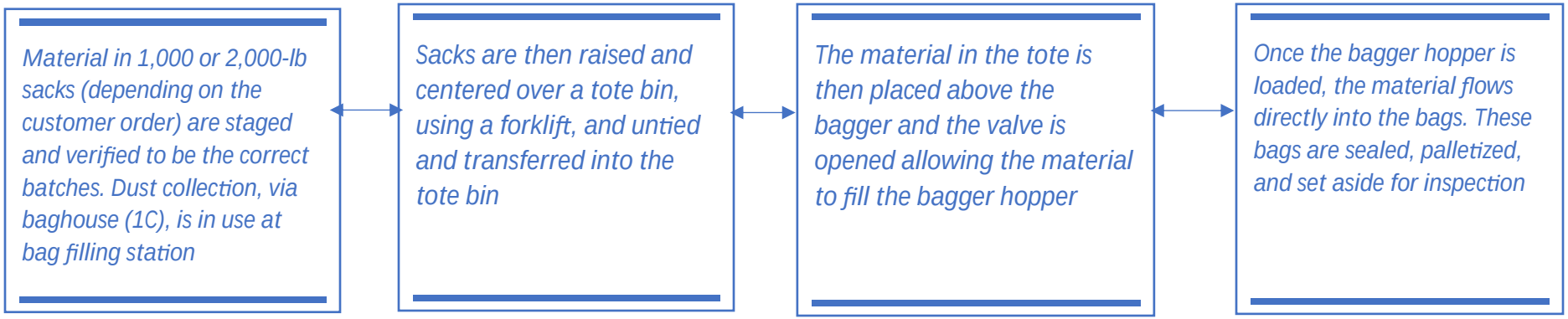
Once centered correctly, an employee then opens the bottom of the sack to allow the material to empty into the bulk trailer through the funnel with a vibrator to assist with flow.

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)

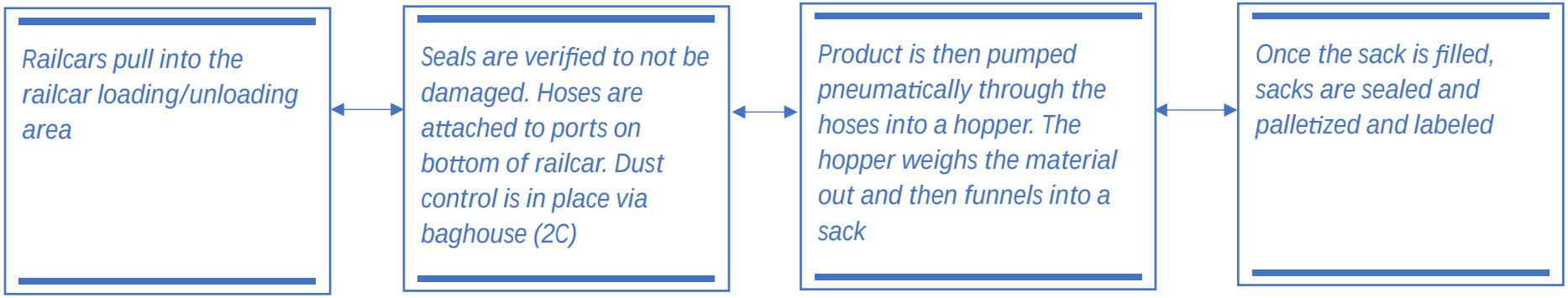


Appendix G - Process Description for Small Bagging (3S)

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).

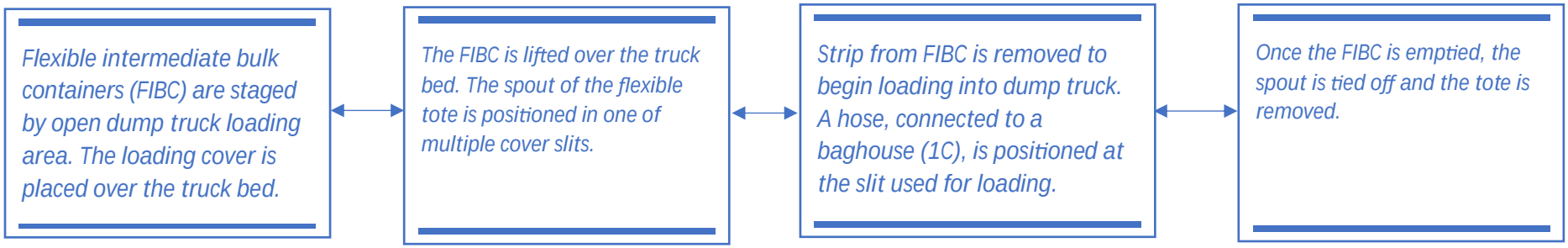
Appendix F – Process Flow Diagram for Railcar Loading/Unloading (4S)



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)



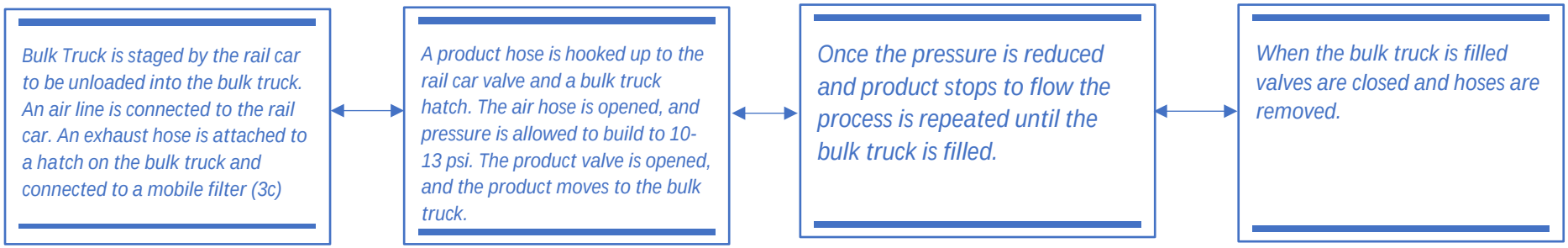
APPENDIX G - Process Description for Open Dump Truck Loading (5S)

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.

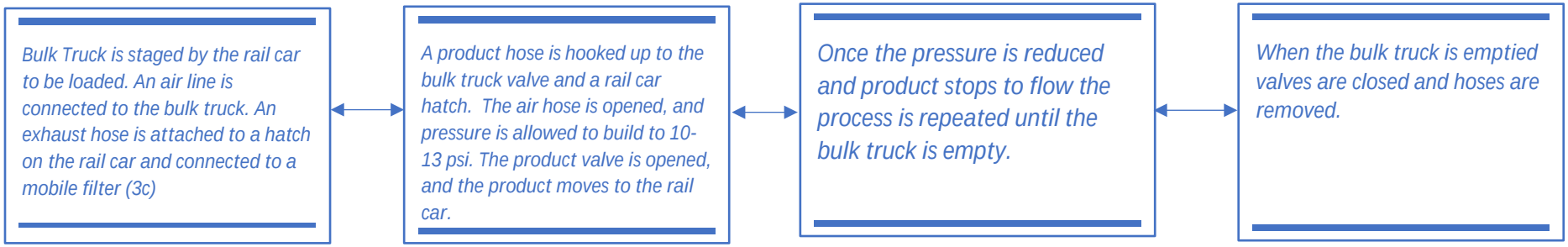
APPENDIX F – Process Flow Diagram for Rail Car to Bulk Truck (6S)



APPENDIX G - Process Description for Rail Car to Bulk Truck

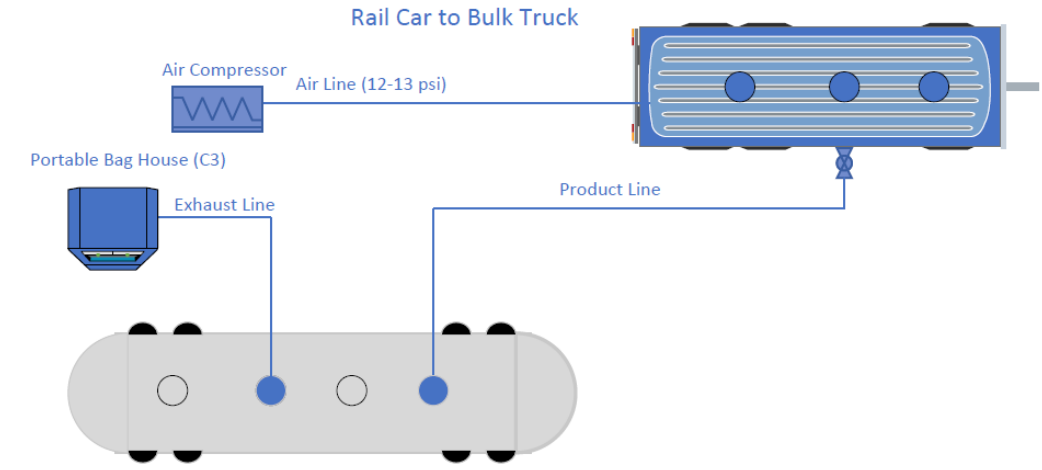
The bulk trucks are loaded from the rail cars by pressurizing the rail car with air to 10-13 psi. This forces the material through a hose into the rail car. Attached to a bulk truck hatch is a exhaust hose attached to a mobile filter unit (3C). Since more air is evacuated than the air compressor can compensate for, once the pressure falls the process is repeated until the bulk truck is filled. See the diagram after 7S.

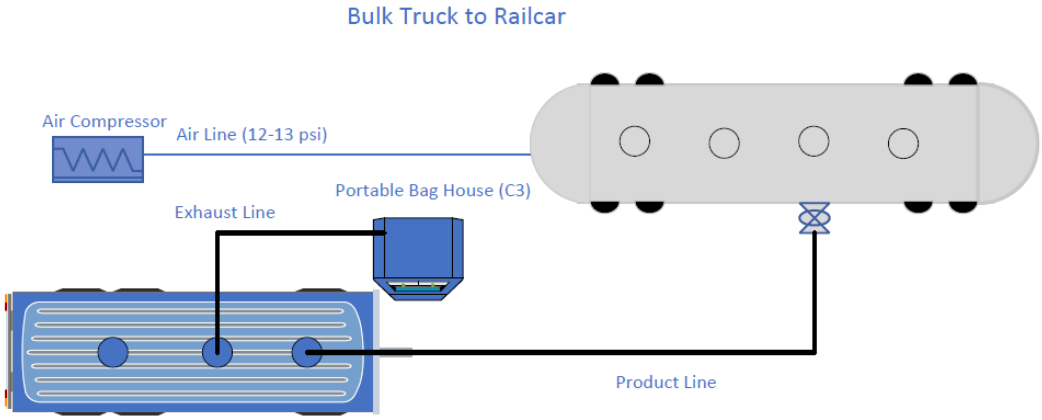
APPENDIX F – Process Flow Diagram for Bulk Truck to Rail Car (7S)



APPENDIX G - Process Description for Bulk Truck to Rail Car

The rail cars are loaded from the bulk trucks by pressurizing the bulk truck with air to 10-13 psi. This forces the material through a hose into the bulk truck through a hatch. Attached to another bulk truck hatch is an exhaust hose attached to a mobile filter unit (3C). Since more air is evacuated than the air compressor can compensate for, once the pressure falls the process is repeated until the bulk truck is emptied. See the diagram after 7S.


Rail Car to Bulk Truck
Air Compressor
Air Line (12-13 psi)
Portable Bag House (C3)
Exhaust Line
Product Line


Bulk Truck to Railcar
Air Compressor
Air Line (12-13 psi)
Portable Bag House (C3)
Exhaust Line
Product Line

ATTACHMENT H

CPG LF 12X40
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	%
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.

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.

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	: No data available
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
Viscosity, kinematic	: Not applicable
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.

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 (CO_2).

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Activated carbon (7440-44-0)	
LD_{50} 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

Carcinogenicity : Not classified

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 exposure) : Not classified

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 : Dust may cause irritation of the skin.

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.

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.

12.5. Other adverse effects

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 (49 CFR 173.27)	: None on finished product

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

UN/NA No	: None on finished product
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

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

15.2. International regulations

No additional information available.

15.3. US State regulations

California Proposition 65

WARNING: 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)	X				Not available	
Cobalt (7440-48-4)	X					

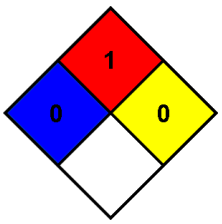
Component	State or local regulations
Aluminum oxide (1344-28-1)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Calcium sulfate (7778-18-9)	U.S. - New Jersey - Right to Know Hazardous 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 4.0
Revision Date : 10/20/2020
Other information : Author: ADK
For 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

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.

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
6S	3E	Railcar to Tanker Truck Loading	Unknown	10.7 TPH	Unknown	3C
7S	3E	Tanker Truck to Railcar Loading	Unknown	10.7 TPH	Unknown	3C
8S	V1, V2, V3, V4, V5	Roof and Wall Exhaust Fans in Warehouse	2024	N/A	Unknown	4C

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[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			
1E	Downward Vertical Stack	2S, 3S, 5S		1C	Baghouse			PM	2965.20	1694.84	29.65	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
3E	Vertical Stack	6S, 7S		3C	Portable Baghouse			PM	1198.40	107.52	11.98	1.08	Solid	AP	Ppmv
V1	Roof Exhaust Fan Vent	8S		4C	Exhaust Fan Filters			PM	0.5	0.65	0.22	0.286	Solid	AP	Ppmv
V2	Roof Exhaust Fan Vent	8S		4C	Exhaust Fan Filters			PM	0.5	0.65	0.22	0.286	Solid	AP	Ppmv
V3	Wall Exhaust Fan Vent	8S		4C	Exhaust Fan Filters			PM	0.5	0.65	0.22	0.286	Solid	AP	Ppmv

V4	Wall Exhaust Fan Vent	8S		4C	Exhaust Fan Filters			PM	0.5	0.65	0.22	0.286	Solid	AP	Ppmv
V5	Wall Exhaust Fan Vent	8S		4C	Exhaust Fan Filters			PM	0.5	0.65	0.22	0.286	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, CS_2, VOCs, H_2S, Inorganics, Lead, Organics, O_3, NO, NO_2, SO_2, SO_3, all applicable Greenhouse Gases (including CO_2 and methane), etc. **DO NOT LIST** H_2, H_2O, N_2, O_2, 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).

[6] 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).

[7] 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/m^3) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO_2, 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 Elevation (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	4254895	377028
2E	8.375’	Ambient	2700	117	570.57	4FT Horizontal	4254871	376929
3E	Unk.	Ambient	1400	117	570.57	4FT Horizontal	4254871	376929
V1	Unk.	Ambient	Unk.	Unk.	570.57	Roof, unk. height	4254792	376888

V2	Unk.	Ambient	Unk.	Unk.	570.57	Roof, unk. height	4254772	376893
V3	Unk.	Ambient	Unk.	Unk.	570.57	Wall unk. height	4254809	377015
V4	Unk.	Ambient	Unk.	Unk.	570.57	Wall unk. height	4254764	377019
V5	Unk.	Ambient	Unk.	Unk.	570.57	Wall unk. height	4254748	377022

[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 ☒ No ☐ 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 ☒ No ☐ 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 ☒ No ☐ 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 ☒ No ☐ If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.
7.) Will there be any other activities that generate fugitive emissions? ☒ Yes ☐ No ☒ If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET or the most appropriate form.
If you answered "NO" to all of the items above, it is not necessary to complete the following table, "Fugitive Emissions Summary."

FUGITIVE EMISSIONS SUMMARY	All Regulated Pollutants - Chemical Name/CAS [1]	Maximum Potential Uncontrolled Emissions [2]		Maximum Potential Controlled Emissions [3]		Est. Method Used [4]
		lb/hr	ton/yr	lb/hr	ton/yr	
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, CS_2, VOCs, H_2S, Inorganics, Lead, Organics, O_3, NO, NO_2, SO_2, SO_3, all applicable Greenhouse Gases (including CO_2 and methane), etc. DO NOT LIST H_2, H_2O, N_2, O_2, and Noble Gases.

[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

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

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

1. 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 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

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

N/A

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

(c) Theoretical combustion air requirement (ACF/unit of fuel):

@ °F and psia.

(d) Percent excess air:

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

(g) Proposed maximum design heat input: $\times 10^6$ BTU/hr.

7. Projected operating schedule:

Hours/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.	CO	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

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. 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 THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty

The Bulk Truck Unloading process will occur with an associated baghouse.

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

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

1. Name or type and model of proposed affected source:

   Bulk truck loading

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 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

5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:

   N/A

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

N/A

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

N/A

(c) Theoretical combustion air requirement (ACF/unit of fuel):

N/A @ N/A °F and N/A psia.

(d) Percent excess air: N/A

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

N/A

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

N/A

(g) Proposed maximum design heat input: $\times 10^6$ BTU/hr.

7. Projected operating schedule:

Hours/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.	CO	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

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. 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 THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty

The Bulk Tanker Truck Loading process will occur with the assistance of a bag massager before the bag is then loaded into the tanker truck with the assistance of a vibrator and under a hood connected to a baghouse.

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

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

1. 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 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:

   0.75 TPH

4. Name(s) and maximum amount of proposed material(s) produced per hour:

   1.26 PPH

5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:

   N/A

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

N/A

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

N/A

(c) Theoretical combustion air requirement (ACF/unit of fuel):

N/A @ N/A °F and N/A psia.

(d) Percent excess air: N/A

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

N/A

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

N/A

(g) Proposed maximum design heat input: N/A × 10^6 BTU/hr.

7. Projected operating schedule:

Hours/Day	8	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.	CO	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

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. 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 THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty

Small bagging occurs indoors with an associated baghouse.

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

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

1. Name or type and model of proposed affected source:

   Pneumatic Railcar Loading/Unloading

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 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/unloaded from the railcars)

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

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

(c) Theoretical combustion air requirement (ACF/unit of fuel):

@ °F and psia.

(d) Percent excess air:

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

(g) Proposed maximum design heat input: $\times 10^6$ BTU/hr.

7. Projected operating schedule:

Hours/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.	CO	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

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. 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 THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty

Pneumatic railcar loading/unloading occurs with an associated baghouse.

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

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

1. Name or type and model of proposed affected source:

   Open Dump Truck Loading

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 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)

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

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

N/A

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

N/A

(c) Theoretical combustion air requirement (ACF/unit of fuel):

N/A @ N/A °F and N/A psia.

(d) Percent excess air: N/A

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

N/A

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

N/A

(g) Proposed maximum design heat input: × 10^6 BTU/hr.

7. Projected operating schedule:

Hours/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.	CO	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

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. 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 THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty

The Open Dump Truck Loading process will occur with the assistance of a cover over the dump truck bed. A flexi ble tote will be lifted over the truck, the spout from the tote will be placed into one of multiple cut slits in the cover, then the tote will be opened. A hose, connected to the nearby baghouse, will be positioned by the slit that the tote is loading into, to catch particulates.

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

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*): 6S

1. Name or type and model of proposed affected source:

   Railcar to Tanker Truck Loading

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 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:

   10.7 TPH Carbon (This is the amount of Carbon Material being loaded into the dump trucks)

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

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

N/A

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

N/A

(c) Theoretical combustion air requirement (ACF/unit of fuel):

N/A @ N/A °F and N/A psia.

(d) Percent excess air: N/A

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

N/A

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

N/A

(g) Proposed maximum design heat input: × 10^6 BTU/hr.

7. Projected operating schedule:

Hours/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.	CO	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	599.20 lb/hr	grains/ACF
		lb/hr	grains/ACF
		lb/hr	grains/ACF
		lb/hr	grains/ACF

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. 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 THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty

The Railcar to Tanker Truck Loading process will occur with the assistance of a portable baghouse (3C).

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

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*): 7S

1. Name or type and model of proposed affected source:

   Tanker Truck to Railcar Loading

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 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:

   10.7 TPH Carbon (This is the amount of Carbon Material being loaded into the dump trucks)

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

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

N/A

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

N/A

(c) Theoretical combustion air requirement (ACF/unit of fuel):

N/A @ N/A °F and N/A psia.

(d) Percent excess air: N/A

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

N/A

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

N/A

(g) Proposed maximum design heat input: × 10^6 BTU/hr.

7. Projected operating schedule:

Hours/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.	CO	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	599.20 lb/hr	grains/ACF
		lb/hr	grains/ACF
		lb/hr	grains/ACF
		lb/hr	grains/ACF

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. 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 THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty

The Tanker Truck to Railcar Loading process will occur with the assistance of a portable baghouse (3C).

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 ÷ VMT] × [VMT ÷ trip] × [Trips ÷ Hour] = lb/hr

For TPY: [lb ÷ VMT] × [VMT ÷ trip] × [Trips ÷ Hour] × [Ton ÷ 2000 lb] = Tons/year

SUMMARY OF UNPAVED HAULROAD EMISSIONS

Item No.	PM				PM-10			
	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.)

I =	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							
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 ÷ VMT] × [VMT ÷ trip] × [Trips ÷ Hour] = lb/hr

For TPY: [lb ÷ VMT] × [VMT ÷ trip] × [Trips ÷ Hour] × [Ton ÷ 2000 lb] = Tons/year

SUMMARY OF PAVED HAULROAD EMISSIONS

Item No.	Uncontrolled		Controlled	
	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

Attachment L
EMISSIONS UNIT DATA SHEET
GENERAL

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

1. Name or type and model of proposed affected source:

   Other fugitive emissions from carbon loading and unloading.

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 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:

   2.5 PPH

4. Name(s) and maximum amount of proposed material(s) produced per hour:

   N/A

5. Give chemical reactions, if applicable, that will be involved in the generation of air pollutants:

   N/A

* The identification number which appears here must correspond to the air pollution control device identification number appearing on the *List Form*.

6. Combustion Data (if applicable):

(a) Type and amount in appropriate units of fuel(s) to be burned:

N/A

(b) Chemical analysis of proposed fuel(s), excluding coal, including maximum percent sulfur and ash:

(c) Theoretical combustion air requirement (ACF/unit of fuel):

@ °F and psia.

(d) Percent excess air:

(e) Type and BTU/hr of burners and all other firing equipment planned to be used:

(f) If coal is proposed as a source of fuel, identify supplier and seams and give sizing of the coal as it will be fired:

(g) Proposed maximum design heat input: $\times 10^6$ BTU/hr.

7. Projected operating schedule:

Hours/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.	CO	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

NOTE: (1) An Air Pollution Control Device Sheet must be completed for any air pollution device(s) used to control emissions from this affected source.

(2) Complete the Emission Points Data Sheet.

9. 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 THE PROCESS PARAMETERS AND RANGES THAT ARE PROPOSED TO BE MONITORED IN ORDER TO DEMONSTRATE COMPLIANCE WITH THE OPERATION OF THIS PROCESS EQUIPMENT OPERATION/AIR POLLUTION CONTROL DEVICE.

RECORDKEEPING. PLEASE DESCRIBE THE PROPOSED RECORDKEEPING THAT WILL ACCOMPANY THE MONITORING.

REPORTING. PLEASE DESCRIBE THE PROPOSED FREQUENCY OF REPORTING OF THE RECORDKEEPING.

TESTING. PLEASE DESCRIBE ANY PROPOSED EMISSIONS TESTING FOR THIS PROCESS EQUIPMENT/AIR POLLUTION CONTROL DEVICE.

10. Describe all operating ranges and maintenance 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
   Model No. CA9-1.5D

2. Total number of compartments: 1

3. Number of compartment online for normal operation: 1

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: (check one)
   - ☐ Open Pressure
   - ☒ Closed Pressure
   - ☐ Closed Suction
   - ☐ Electrostatically Enhanced Fabric
   - ☐ Other, Specify

6. Filter Fabric Bag Material:
   - ☐ Nomex nylon
   - ☐ Wool
   - ☐ Polyester
   - ☒ Polypropylene
   - ☐ Acrylics
   - ☐ Ceramics
   - ☐ Fiber Glass
   - ☐ Cotton Weight ____ oz./sq.yd
   - ☐ Teflon Thickness ____ in
   - ☐ Others, specify

7. Bag Dimension:
   - Diameter 15 in.
   - Length 52 in.

8. Total cloth area: 2929 ft²

9. Number of bags: 9

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
   - ☐ Pneumatic Shaker
   - ☐ Bag Collapse
   - ☐ Manual Cleaning
   - ☐ Sonic Cleaning
   - ☐ Reverse Air Flow
   - ☒ Pulse Jet
   - ☐ 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 Characteristics

16. Gas flow rate into the collector: 6000 ACFM at Ambient °F and 90-100 PSIA
   ACFM: Design: ____ PSIA Maximum: ____ PSIA Average Expected: ____ PSIA

17. Water Vapor Content of Effluent Stream: 1.4 lb. Water/lb. Dry Air

18. Gas Stream Temperature: Ambient °F

19. Fan Requirements: ____ hp
   OR ____ ft³/min

20. Stabilized static pressure loss across baghouse. Pressure Drop: High ____ in. H_2O
   Low ____ in. H_2O

21. Particulate Loading: Inlet: ____ grain/scf Outlet: ____ grain/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 stream? ☒ No ☐ Yes SO_3 content: ppmv

24. Emission rate of pollutant (specify) into and out of collector at maximum design operating conditions:

	IN		OUT	
Pollutant	**lb/hr**	**grains/acf**	**lb/hr**	**grains/acf**

25. Complete the table:

	Particle Size Distribution at Inlet to Collector	**Fraction Efficiency of 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		

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 ***Baghouse Control Device*** 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:
Daily recordings of the pressure drop gauge	Recording are now turned with the daily production logs
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 equipment or air control device.
RECORDKEEPING:	Please describe the proposed recordkeeping that will accompany the monitoring.
REPORTING:	Please describe any proposed emissions testing for this process equipment on air pollution control device.
TESTING:	Please describe any proposed emissions testing for this process equipment on air pollution control device.

33. Manufacturer's Guaranteed Capture Efficiency for each air pollutant.

No guarantee provided

34. Manufacturer's Guaranteed Control Efficiency for each air pollutant.

99%

35. Describe all operating ranges and maintenance procedures 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
   Model No. 3DF6
2. Total number of compartments: 1
3. Number of compartment online for normal operation: 1
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: (check one)
   - ☐ Open Pressure
   - ☒ Closed Pressure
   - ☐ Closed Suction
   - ☐ Electrostatically Enhanced Fabric
   - ☐ Other, Specify
6. Filter Fabric Bag Material:
   - ☐ Nomex nylon
   - ☐ Wool
   - ☐ Polyester
   - ☒ Polypropylene
   - ☐ Acrylics
   - ☐ Ceramics
   - ☐ Fiber Glass
   - ☐ Cotton Weight oz./sq.yd
   - ☐ Teflon Thickness in
   - ☐ Others, specify
7. Bag Dimension:
   - Diameter 12.75 in.
   - Length 2.17 ft.
8. Total cloth area: 10.86 ft^2
9. Number of bags: 6
10. Operating air to cloth ratio: 46.65 / 70.95 ft/min
11. Baghouse Operation: ☒ Continuous ☐ Automatic ☐ Intermittent
12. Method used to clean bags:
    - ☐ Mechanical Shaker
    - ☐ Pneumatic Shaker
    - ☐ Bag Collapse
    - ☐ Manual Cleaning
    - ☐ Sonic Cleaning
    - ☐ Reverse Air Flow
    - ☒ Pulse Jet
    - ☐ 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 Characteristics

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. Pressure Drop: High in. H_2O Low in. H_2O
21. Particulate Loading: Inlet: grain/scf Outlet: grain/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 stream? ☒ No ☐ Yes SO_3 content: ppmv

24. Emission rate of pollutant (specify) into and out of collector at maximum design operating conditions:

	IN		OUT	
Pollutant	**lb/hr**	**grains/acf**	**lb/hr**	**grains/acf**

25. Complete the table:

	Particle Size Distribution at Inlet to Collector	**Fraction Efficiency of 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		

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 ***Baghouse Control Device*** 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:
Daily recordings of the pressure drop gauge	Recording are now turned with the daily production logs
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 equipment or air control device.
RECORDKEEPING:	Please describe the proposed recordkeeping that will accompany the monitoring.
REPORTING:	Please describe any proposed emissions testing for this process equipment on air pollution control device.
TESTING:	Please describe any proposed emissions testing for this process equipment on air pollution control device.

33. Manufacturer's Guaranteed Capture Efficiency for each air pollutant.

No guarantee provided

34. Manufacturer's Guaranteed Control Efficiency for each air pollutant.

99%

35. Describe all operating ranges and maintenance procedures 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 filters. Fan filters will be inspected monthly and replaced if filters are soiled and restricting air flow.

29. Have you included ***Other Collectores Control Device*** in the Emissions Points Data Summary Sheet?

30. **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: Inspected monthly by maintenance.	RECORDKEEPING: As requested.
REPORTING: As requested.	TESTING: 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 equipment or air control device.
RECORDKEEPING:	Please describe the proposed recordkeeping that will accompany the monitoring.
REPORTING:	Please describe any proposed emissions testing for this process equipment on air pollution control device.
TESTING:	Please describe any proposed emissions testing for this process equipment on air pollution control device.

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 procedures 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): 3C

Equipment Information and Filter Characteristics

1. Manufacturer: Rail Barge Truck Services, Inc.
   Model No. DC1400

2. Total number of compartments: 1

3. Number of compartment online for normal operation: 1

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: (check one)
   ☐ Open Pressure ☒ Closed Pressure ☐ Closed Suction
   ☐ Electrostatically Enhanced Fabric
   ☐ Other, Specify

6. Filter Fabric Bag Material:
   ☐ Nomex nylon ☐ Wool
   ☒ Polyester ☐ Polypropylene
   ☐ Acrylics ☐ Ceramics
   ☐ Fiber Glass
   ☐ Cotton Weight oz./sq.yd
   ☐ Teflon Thickness in
   ☐ Others, specify

7. Bag Dimension:
   Diameter 6 ¼ in.
   Length 39 in.

8. Total cloth area: 380 ft²

9. Number of bags: 11

10. Operating air to cloth ratio: ft/min

11. Baghouse Operation: ☐ Continuous ☐ Automatic ☒ Intermittent

12. Method used to clean bags:
   ☐ Mechanical Shaker ☐ Sonic Cleaning ☐ Reverse Air Jet
   ☐ Pneumatic Shaker ☒ Reverse Air Flow ☐ Other:
   ☐ Bag Collapse ☐ Pulse Jet
   ☐ Manual Cleaning ☐ Reverse Jet

13. Cleaning initiated by:
   ☒ Timer ☐ Frequency if timer actuated
   ☐ Expected pressure drop range in. of water ☐ Other

14. Operation Hours: Max. per day: 10
   Max. per yr: 2600

15. Collection efficiency: Rating: 99.9 %
   Guaranteed minimum: No Guarantee Provided

Gas Stream Characteristics

16. Gas flow rate into the collector: 1400 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 ft³/min

20. Stabilized static pressure loss across baghouse. Pressure Drop: High in. H_2O
   Low in. H_2O

21. Particulate Loading: Inlet: grain/scf Outlet: grain/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 stream? ☒ No ☐ Yes SO_3 content: ppmv

24. Emission rate of pollutant (specify) into and out of collector at maximum design operating conditions:

	IN		OUT	
Pollutant	**lb/hr**	**grains/acf**	**lb/hr**	**grains/acf**

25. Complete the table:

	Particle Size Distribution at Inlet to Collector	**Fraction Efficiency of 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		

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 ***Baghouse Control Device*** 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:
Daily recordings of the pressure drop gauge.	Recording are now turned with the daily production logs.
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 equipment or air control device.

RECORDKEEPING: Please describe the proposed recordkeeping that will accompany the monitoring.

REPORTING: Please describe any proposed emissions testing for this process equipment on air pollution control device.

TESTING: Please describe any proposed emissions testing for this process equipment on air pollution control device.

33. Manufacturer's Guaranteed Capture Efficiency for each air pollutant.

No guarantee provided

34. Manufacturer's Guaranteed Control Efficiency for each air pollutant.

99.9%

35. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.

N/A

Attachment M
Air Pollution Control Device Sheet
(OTHER COLLECTORS)

Control Device ID No. (must match Emission Units Table): 4C (controls V1, V2, V3, V4, and V5)

Equipment Information

1. Manufacturer: Airflow Incorporated Model No. Airflow Pleat	2. Control Device Name: Exhaust Fan Filters Type: Pleated Panel Filters (five total, one for each exhaust fan)
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 calculations used in selecting or designing this collection device.	
5. Provide a scale diagram of the control device showing internal construction.	
6. Submit a schematic and diagram with dimensions and flow rates.	
7. Guaranteed minimum collection efficiency for each pollutant collected: No guarantee.	
8. Attached efficiency curve and/or other efficiency information.	
9. Design inlet volume: N/A SCFM	10. Capacity:N/A
11. Indicate the liquid flow rate and describe equipment provided to measure pressure drop and flow rate, if any. N/A	
12. Attach any additional data including auxiliary equipment and operation details to thoroughly evaluate the control equipment.	
13. Description of method of handling the collected material(s) for reuse or disposal. If filters are soiled and restricting proper air flow, work orders will be entered for filter replacement.	

Gas Stream Characteristics

14. Are halogenated organics present?	☐ Yes	☒ No
Are particulates present?	☒ Yes	☐ No
Are metals present?	☐ Yes	☒ No

15. Inlet Emission stream parameters:	**Maximum**	**Typical**
Pressure (mmHg):		
Heat Content (BTU/scf):		
Oxygen Content (%):		
Moisture Content (%):		
Relative Humidity (%):		

16. Type of pollutant(s) controlled: ☐ SO_x ☐ Odor
☒ Particulate (type): Activated carbon, PM fugitives ☐ Other

17. Inlet gas velocity: ft/sec

18. Pollutant specific gravity:

19. Gas flow into the collector:
ACF @ °F and PSIA

20. Gas stream temperature:
Inlet: °F
Outlet: °F

21. Gas flow rate:
Design Maximum: ACFM
Average Expected: ACFM

22. Particulate Grain Loading in grains/scf:
Inlet:
Outlet:

23. Emission rate of each pollutant (specify) into and out of collector:

Pollutant	IN Pollutant		Emission Capture Efficiency %	OUT Pollutant		Control Efficiency %
	lb/hr	grains/acf		lb/hr	grains/acf	
A Fugitive PM	2.5		unknown	1.1		unknown
B						
C						
D						
E						

24. Dimensions of stack: Height ft. Diameter ft.

25. Supply a curve showing proposed collection efficiency versus gas volume from 25 to 130 percent of design rating of collector.

Particulate Distribution

26. Complete the table: Particulate Size Range (microns)	Particle Size Distribution at Inlet to Collector: Weight % for Size Range	Fraction Efficiency of Collector: 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

28. Describe the collection material disposal system:
Particulate matter will collect on the exhaust fan filters. Fan filters will be inspected monthly and replaced if filters are soiled and restricting air flow.

29. Have you included ***Other Collectores Control Device*** in the Emissions Points Data Summary Sheet?

30. **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: Inspected monthly by maintenance.	RECORDKEEPING: As requested.
REPORTING: As requested.	TESTING: 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 equipment or air control device.
RECORDKEEPING:	Please describe the proposed recordkeeping that will accompany the monitoring.
REPORTING:	Please describe any proposed emissions testing for this process equipment on air pollution control device.
TESTING:	Please describe any proposed emissions testing for this process equipment on air pollution control device.

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 procedures required by Manufacturer to maintain warranty.
These exhaust fan filters are located on the warehouse exhaust fans (two roof fans and three wall fans).

airflow products company
AirFLOW
INCORPORATED

AIRFLOW PLEAT

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.

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

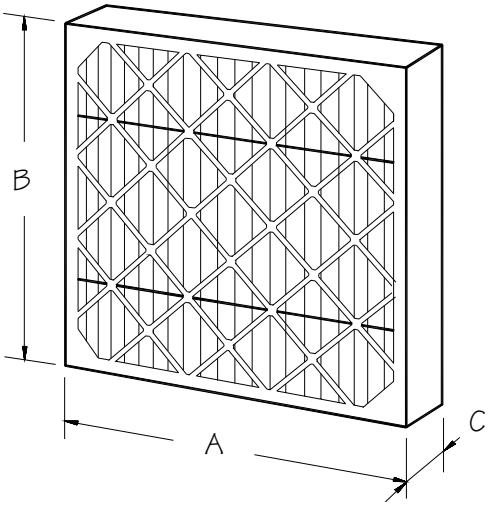
Media bonded to frame using water resistant adhesive

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

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.

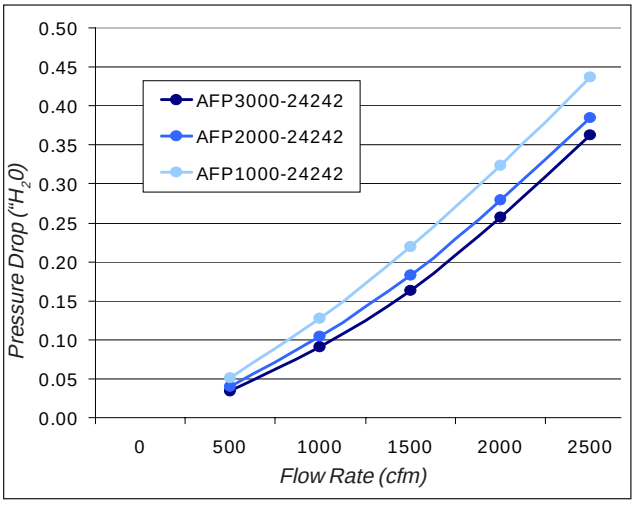


Size Chart - AFP1000, AFP2000, AFP3000

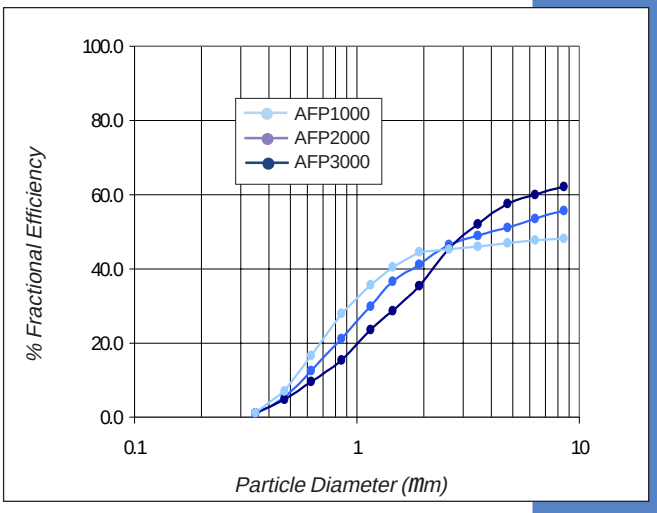
Model Number	Width "A"	Height "B"	Depth "C"
AFPx000-5501	24-1/2"	24-1/2"	3/4", 1-3/4", 3-3/4" *
AFPx000-4401	23-3/8"	23-3/8"	3/4", 1-3/4", 3-3/4" *
AFPx000-0501	19-1/2"	24-1/2"	3/4", 1-3/4", 3-3/4" *
AFPx000-0401	19-1/2"	23-3/8"	3/4", 1-3/4", 3-3/4" *
AFPx000-0001	19-1/2"	19-1/2"	3/4", 1-3/4", 3-3/4" *
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



Distributed by:

airflow products company
AirFLOW INCORPORATED

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Selma, North Carolina 27576
(919) 975-0240 Tel
(919) 975-0250 Fax

National Air Filtration Association

ATTACHMENT N

Attachment N - Calculations, Controlled

1S	Bulk Tanker Truck Unloading						
Transfer Point	Description	Transfer Rate TPH	TPY	Control Device	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 Point	Description	Transfer Rate TPH	TPY	Control Device	Control Device Efficiency	PM lb/Hr	PM TPY
TP1	Sack to Funnel	10.7	27,820	Hood and Baghouse - 1C	99	5.99	7.79
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 Point	Description	Transfer Rate TPH	TPY	Control Device	Control Device Efficiency	PM lb/Hr	PM TPY
TP1	Railcar to FIBC	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 Point	Description	Transfer Rate TPH	TPY	Control Device	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

6S	Railcar to Tanker Truck Loading						
Transfer Point	Description	Transfer Rate TPH	TPY	Control Device	Control Device Efficiency	PM lb/Hr	PM TPY
TP1	Railcar to Tanker Truck	10.7	1920	Portable baghouse - 3C	99	5.992	0.538
Total						5.992	0.538

6S design capacity limit on operation: 10.7 tons of material / hr and 1,920 tons of material / yr

7S	Tanker Truck to Railcar Loading						
Transfer Point	Description	Transfer Rate TPH	TPY	Control Device	Control Device Efficiency	PM lb/Hr	PM TPY
TP1	Tanker Truck to Railcar	10.7	1920	Portable baghouse - 3C	99	5.992	0.538
Total						5.992	0.538

7S design capacity limit on operation: 10.7 tons of material / hr and 1,920 tons of material / yr

28.94 **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

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

6S	Railcar to Tanker Truck Loading				
Transfer Point	Description	Transfer Rate TPH	TPY	PM lb/Hr	PM TPY
TP1	Railcar to Tanker Truck	10.7	1920	599.2	53.760
Total				599.20	53.760

6S design capacity limit on operation: 10.7 tons of material / hr and 1,920 tons of material / yr

7S	Tanker Truck to Railcar Loading				
Transfer Point	Description	Transfer Rate TPH	TPY	PM lb/Hr	PM TPY
TP1	Tanker Truck to Railcar	10.7	1920	599.2	53.760
Total				599.20	53.760

7S design capacity limit on operation: 10.7 tons of material / hr and 1,920 tons of material / yr

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

2639.49 **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 Construction Permit for small bagging, bulk truck loading and unloading, pneumatic railcar unloading and loading, and open dump truck loading 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:
Total Particulate Matter (PM) 28.94 tons per year (TPY). Total Particulate Matter includes particulate matter less than 10 microns (PM_{10}) and particulate matter less than 2.5 microns ($PM_{2.5}$).

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.
Gregg Frazier
President
221 Airport Industrial Park Road
Parkersburg, WV 26104

ADDENDUM - DUST CONTROL PLAN

REO Processing, Inc.

Dust Control Plan Rev 8

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

April 9, 2024

TABLE OF CONTENTS

Appendices

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

Bulk trucks are fully enclosed trucks with built in filling ports.

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.

During loading of bulk trucks, dust is captured and evacuated to a baghouse from the time material begins flowing into the truck until the funnel is removed and the trailer fills port(s) are closed.

Bulk Dump Truck filling-Process Description

Bulk dump trucks are open top trailers with a soft-top cover or tarp that is removed, pulled back, or rolled up to allow loading. Once loading has been completed, the open top of the dump truck is re-covered prior to transporting loaded material.

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 custom made, solid fill (fill cover) cover is placed on the bulk dump truck. The fill 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 fill cover is removed and the dump trailer tarp is positioned over the load.

During loading of bulk dump trucks, dust is captured and evacuated to a baghouse from the time material begins flowing into the truck until the funnel is removed and the trailer fills port(s) are closed.

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 routed to a baghouse is in place at the sack fill station and utilized during unloading.

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 routed to a baghouse 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 system Preventive 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 Additionally, REO has installed dust netting to prevent dust from escaping the breezeway area between buildings.

Exhaust Fans in main warehouse – The main warehouse has 5 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 initiated. 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 filling areas	Weekly inspection 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. This daily walkthrough will include housekeeping inspections to facilitate cleaning needs. Forms have been developed to assist in daily walkthrough inspections and documentation.

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; duration of event; 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.

Appendix A - Facility Layout

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

Operation		Emission Point Number	Control Device	Control Device Number
From	To			
Bulk Truck	FIBC	1S	Bag House by FIBC Line	2C
FIBC	Bulk Tanker	2S	Bag House Outside	1C
FIBC	Small Baggine	3S	Bag House OUtside	1C
Rail Car	FIBC	4S	Bag House by FIBC Line	2C
FIBC	Dump Truck	5S	Bag House OUtside	1C
Rail Car	Tanker Truck	6S	Mobile Filter System	3C
Tanker Truck	Rail Car	7S	Mobile Filter System	3C

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 Loading/Unloading	Are the baghouse hoses in good working order (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 Area	Is the filtration system in good working order (e.g., running, filters in place and properly seated)?		
	Do the filters require change out?		
	Are there visible emissions coming from the process?		
Warehouse Exhaust Fans (roof)	Are the fans in good working order (e.g., running, 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?		

Areas Inspected	**Dust Control Measure**	**Observation**	**Corrective Actions Taken**
Warehouse Exhaust Fans (eastern)	Are the fans in good working order (e.g., running, 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?		
Exterior Railcar Filling (if used in the month)	Is the dust collection system in good working order (e.g., running, filters in place and properly 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?		

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 baghouse		
	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?		