

COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

Air Quality Program

301 39th Street, Clack Health Center Building 7, Pittsburgh, PA 15201-1811
ph: 412.578.8103 • 24-hr: 412.687.ACHD (2243) • www.alleghenycounty.us/healthdepartment

SUBMISSION FORM – AIR POLLUTION MITIGATION PLAN

04

AFFIDAVIT

I certify that, subject to the penalties of Title 18Pa. C.S.A. Section 4904 and 35 P.S. Section 4009(b)(2), I am the responsible official having primary responsibility for the operation of the facilities to which this air pollution mitigation plan applies and that the information provided in this mitigation plan is true, accurate and complete to the best of my knowledge, information and belief formed after reasonable inquiry.

Signature:

A handwritten signature in blue ink, appearing to read "M. Holmes".

Date

12/27/2021

Typed/Printed Name: **Marshall Holmes**

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APPLICANT INFORMATION

The Air Pollution Mitigation Plan is submitted by affected facilities to meet the requirements of Allegheny County regulations found in §2106.06 (Mon Valley Air Pollution Episode) of Article XXI.

01 Facility Information

Name of Facility _____
Address _____
City State Zip+4 _____
Permit # _____ Phone _____

02 Environmental Contact Information (Person to contact regarding technical details of this mitigation plan)

Name/Title _____
Address _____
City State Zip+4 _____
Email _____ Phone _____

03 Responsible Official Information

Name/Title _____
Address _____
City State Zip+4 _____
Email _____ Phone _____



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05 List all equipment or processes at your facility that emit PM₁₀ and/or PM_{2.5}

| |
|---------------------------------------|
| WATCH PHASE OF MITIGATION PLAN |
|---------------------------------------|

06 How will your facility ensure that equipment which produces particulate emissions is operating in a manner consistent with optimal engineering practices?

07 How will your facility ensure that air pollution control equipment is maintained in optimal working condition?

08 How will your facility ensure that actions taken in blocks 05 and 06 are properly monitored, recorded, and reported to the Health Department?

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WARNING PHASE OF MITIGATION PLAN

09 How will your facility ensure that procedures are in place so enough staff and resources are available to implement the Mon Valley Air Pollution Warning Phase within 24 hours of the notification from ACHD?

10 For every process and piece of equipment, list all available methods to reduce PM_{2.5}/PM₁₀ emissions from your four-year hourly average. During an actual warning phase, the actions to reduce emissions must last the length of the episode.

11 For each piece of equipment and process, determine which emission reduction methods are feasible. List whether each method is feasible or infeasible and provide a justification for your determination.

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12 How will your facility ensure that actions taken in block 10 are properly monitored, recorded, and reported to the Health Department?

13 Provide an active spreadsheet containing the following:

- Calculations of your facility's PM_{2.5} and PM₁₀ emissions for each of the past four years (2017-2020) in tons/year for every piece of equipment and process;
- Calculation of average four year emissions of PM_{2.5} and PM₁₀ in lbs/hr for each piece of equipment and process;
- Feasible PM_{2.5} and PM₁₀ emission reductions in lbs/hr that will occur during a warning phase for every piece of equipment and process as well as the facility total; and
- Feasible PM_{2.5} and PM₁₀ emission reductions in percent reduced from the hourly four year average for every piece of equipment and process as well as the facility total percent reduction.

This spreadsheet will be used to calculate actual emission reductions that will be reported to the Health Department after warning phases have ended.

14 How much time will be required for your facility to implement the emission reductions in block 10?



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SUBMISSION FORM – AIR POLLUTION MITIGATION PLAN

| INSTRUCTIONS | |
|---|--|
| Submission Form for the Air Pollution Mitigation Plan | |
| <u>Block 01</u> Facility Information | The facility name for the operation at that particular address should be used and not the name of the larger corporation. Use the address for the actual facility and not the company headquarters, if different. The most recent permit number should be included. If it is not known, it can be left blank. |
| <u>Block 02</u> Environmental Contact Information | Fill in the contact information of the individual (e.g. employee or consultant) who will be contacted to provide environmental technical information for the Air Pollution Mitigation Plan |
| <u>Block 03</u> Responsible Official Information | This address and phone number are for the office where the responsible official works the majority of the time. See block 04 instructions for information regarding the responsible official. |
| <u>Block 04</u> Affidavit | This affidavit must be signed by the responsible official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. CORPORATION – President, Vice President, Secretary, Treasurer, or duly authorized person BUSINESS – Sole Proprietor or General Partner GOVERNMENT ENTITY – Ranking elected official or principal executive officer |
| <u>Blocks 05–08</u> Watch Phase of Mitigation Plan | The responses that you provide in blocks 05 through 08 will be specific to your equipment and facility. Below are some general ideas that may help you in how to approach these requirements. <ul style="list-style-type: none"> • Staff related <ul style="list-style-type: none"> • Review procedures with employees to ensure all equipment is properly operating in a way to minimize air emissions. • Schedule additional or on-call employees for upcoming shifts to ensure facility is fully staffed for a warning phase. • Conduct a shift meeting(s) to remind employees to prioritize the environmental impact of their operations to reduce emissions. • Share any other procedures which would help ensure sufficient staff levels and available resources to implement a warning phase. • Equipment related <ul style="list-style-type: none"> • Inspect any equipment or processes which may have a potential to increase emissions to ensure proper operation and maintenance. |



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| | |
|---|--|
| | <ul style="list-style-type: none"> • Implement improved operation and maintenance practices beyond standard operating procedures. • Ensure the facility is following the idling requirements under Act 124 of the PA Department of Environmental Protection regulations. • Conduct maintenance on all pollution control equipment. • Share any other procedures which help ensure the facility is operating in a manner consistent with good engineering practices. • Share any other procedures which help ensure the air pollution control equipment is maintained in good working condition. |
| <p><u>Block 09</u> Warning Phase of Mitigation Plan</p> | <p>A good starting point in completing this block is to refer to the table found in section II of your facility’s air quality permit titled “Emission Unit Identification” and identify which units emit particulate matter. There may be other equipment, not listed in the section II table, that can be included in the block 09 list.</p> |
| <p><u>Block 10</u> Warning Phase of Mitigation Plan</p> | <p>Block 10 should explain what actions the facility could possible take to ensure that hourly emissions are reduced.</p> <p>Possible methods include:</p> <ul style="list-style-type: none"> • Reduction in material throughput • Reduction in operating time • Increased use of controls or suppression equipment • Changes in raw materials <p>Examples of possible actions include:</p> <ul style="list-style-type: none"> • Reduce production by a certain percentage or rate from normal operating conditions. A reduction from a potential maximum production rate will not be accepted if it is too high compared to normal operating rates for the relevant time period, thereby not resulting in an actual reduction in pollution. • Reduce usage of diesel fuel or other PM_{2.5} or PM₁₀ creating fuel types or switch fuel types to lower PM_{2.5} or PM₁₀ as allowed by the relevant permits. • Bring in additional employees to allow the facility to operate in the best environmentally responsible manner. • Delay production to a future day when a mitigation plan is not needed. • Delay any non-essential activities to a future day when a mitigation plan is not needed. • Fully or partially enclose material movement and other work activities which produce dust and other particulate matter (PM_{2.5} or PM₁₀ emissions). • Modify work practices to decrease PM_{2.5} or PM₁₀ emissions such as: |



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| | |
|---|---|
| | <ul style="list-style-type: none"> ○ Slowing material handling ○ Fully or partially enclose material movement and other work activities which produce dust and other particulate matter (PM_{2.5} or PM₁₀ emissions). ● Stop or decrease unnecessary transportation activities and reduce travel speed on necessary transportation. ● Employ additional roadway wetting or other activities to minimize road dust creation. ● Add any other measures which reduce PM_{2.5} or PM₁₀ emissions. |
| <p><u>Block 11</u> Warning Phase of Mitigation Plan</p> | <p>Emission reduction methods that are feasible can be eliminated from consideration for other reasons as long as adequate justification is given.</p> |
| <p><u>Block 12</u> Warning Phase of Mitigation Plan</p> | <p>The Health Department will require a report, submitted after the warning phase has ended, itemizing what actions were taken to meet the requirements of the warning phase.</p> |
| <p><u>Block 13</u> Warning Phase of Mitigation Plan</p> | <p>The spreadsheet must include actual plant emissions of PM_{2.5} and PM₁₀ for all equipment listed in block 09 for each of the past four years (2017-2020) in tons/year. These calculations can be copied directly from the spreadsheets submitted to the Health Department for emissions inventories.</p> <p>For each piece of equipment and process, emissions from the last four years must be provided in tons/year.</p> <p>For each piece of equipment and process, proposed feasible emission reductions must be provided in lbs/hr.</p> <p>The hourly average will be calculated for each unit and process by adding yearly emissions together and dividing by the total number of hours that the unit emitted over four years.</p> <p>In the case of a batch process, calculations will need to take into account the number of hours in each batch and the number of batches in a year.</p> |
| <p><u>Block 14</u> Warning Phase of Mitigation Plan</p> | <p>Section 2106.06 of county air quality regulations requires that an affected facility is able to implement the requirements of the warning phase within 24 hours.</p> |

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Mitigation Plan Checklist

The following checklist is provided as a list of items required for a complete mitigation plan submission. If at any time you have questions about your application, please call JoAnn Truchan 412-578-7981 or Jayme Graham 412-578-8129.

- Has the responsible official signed and dated the first page (block 04)?
- Have you provided an active spreadsheet showing actual emissions for every piece of equipment and process of PM_{2.5} and PM₁₀ for the past four years in tons per year?
- Does the spreadsheet include the average actual PM_{2.5} and PM₁₀ emissions from every piece of equipment and process for the past four years in lbs/hr?
- Does the spreadsheet include the PM₁₀ and PM_{2.5} reduction that will be achieved from every piece of equipment and process in lbs/hr and % from the four year hourly average during the warming phase?
- Have you provided a complete response for each of the fourteen blocks?



PM2.5 Episode Plan

Attachment 2:

10 For every process and piece of equipment, list all available methods to reduce PM2.5/PM10 emissions from your four-year hourly average. During an actual warning phase, the actions to reduce emissions must last the length of the episode.

(see Attachment 1 for specific list)

Cooling Towers

- 1) Shut off cooling water circulation and fans
- 2) Reduce cooling water circulation flow rate and fan speed
- 3) Increase blow down and introduce fresh water to reduce solids in the cooling water.

Roads

- 4) Water the roads
- 5) Reduce speed limits
- 6) Restrict or stop road use

Boilers and Heaters

- 7) Shut down boilers and heaters
- 8) Reduce boiler and heater operating rates
- 9) Fuel switch

Emergency Engine

- 10) Do not use the emergency engine in any circumstance
- 11) Do not run emergency engine for periodic maintenance and availability check

Solids Handling – Pastillating Belts and Bagging Operations

- 12) Do not pastillate and bag products
- 13) Restrict pastillation and bagging

Solids Handling – Raw Material Additions (Filter aids, additives, etc)

- 14) Do not add raw materials
- 15) Restrict adding raw materials
- 16) Reclaiming / Recycling Resin

Miscellaneous Activities

- 17) Abrasive Blasting: Refrain from abrasive blasting.
- 18) Open Burning: Refrain from open burning

Attachment 3:

11 For every process and piece of equipment, determine which emission reduction methods are feasible. List whether each method is feasible or infeasible and provide a justification for your determination.

Cooling Towers

- 1) Shut off cooling water circulation and fans
- 2) Reduce cooling water circulation flow rate and fan speed
- 3) Increase blow down and introduce fresh water to reduce solids in the cooling water.

Of the available options for cooling towers, only option 3, increase blowdown and add fresh water is feasible. The cooling towers are essential to the operation of the facility's many coolers and condensers which function as air pollution control devices. The sole exception is the cooling tower for the pilot plant. Shutdown of the pilot plant is possible and is proposed as an action to be taken during the warning phase.

Roads

- 4) Water the roads
- 5) Reduce speed limits
- 6) Restrict or stop road use

The majority of the roads within the facility are paved and emissions from paved roads are a small amount of the estimated emissions from roadways as the emissions from unpaved roads dominate the estimate. The majority of the unpaved roadways are located in the large tank farm area.

Watering the roads is an effective means to reduce dust. However, the site does not own equipment to execute this task. With a 24-hour notification as the basis, Eastman does not believe it feasible to reliably obtain services to water the plant's roadways within the time required.

A similar reduction can be achieved by temporarily reducing activity on the tankfarm road by reducing its speed limit and by restricting use to only essential activities whenever the roads have not recently been wetted by rainfall or by intentional washing or wetting. The sitewide speed limit is 10 mph. During warning phases, it is proposed to reduce the targeted speed to between 5 to 8 mph or below except where emergency or safety critical activities warrant a higher rate. Practical limitations on the controllability of modern motor vehicles at speeds below 10 mph make setting a hard speed limit impractical. Activities in the upper tank farm where the majority of unpaved roads exist will be reduced as practical to only those activities as are necessary for safety and good operation (ex. Inspections and/or operation necessary tasks).

Boilers and Heaters

- 7) Shut down boilers and heaters
- 8) Reduce boiler and heater operating rates
- 9) Fuel switch

The facility uses a variety of boilers and process heaters to provide heat to the production processes. Each of these units is currently fired with the cleanest fuel possible (e.g. natural gas). With the recent

commitment to not burn liquid fuels in the Trane boiler, all of the units are fired with natural gas which by its nature, produces the minimum uncontrolled particulate emission rate of all available fuels. There are no active particulate emission controls on these units and to Eastman's knowledge, there is no RACT, BACT or LAER examples of particulate emission controls for natural gas combustion units of sizes that the site operates. This which limits options to either shutting the units down or restricting their use. None of the individual units have produced a significant emission rate over the past four years. Shutting down or restricting use would directly affect production rates and cannot be done during winter operations due to the damage that would occur due to freezing conditions. The cost of facility shutdown is in excess of \$2 million per day in lost revenue and sales. Therefore, shutdown and/or reducing rates is not justifiable due to cost with little to no benefit.

Emergency Engine

- 10) Do not use the emergency engine in any circumstance
- 11) Do not run emergency engine for periodic maintenance and availability check

The purpose of the emergency engine is to provide power in the event of utility power loss. In this mode of operation, it is a necessary safety device and it is not feasible to shut it off. Periodic maintenance and availability checks can be deferred for a short period and this is proposed as part of the plan.

Solids Handling – Pastillating Belts and Bagging Operations

- 12) Do not pastillate and bag products
- 13) Restrict pastillation and bagging

The Pure Monomer Resins departments (MP Poly, WW Poly, Hydro, and LTCs) and C-5 departments make products which must be pastillated and bagged . Reduction in rates while feasible is not justifiable due to the low emission rate from these units and high cost of lost production. (See above discussion on boilers; delay or shutdown of the facility has the potential to affect in excess of \$2 million per day in sales revenue from direct sales loss and an undefined higher amount for loss of customers who would move their purchases to facilities that would become more reliable suppliers.

Eastman notes that current representations of emissions from these sources assumes that the PM2.5 emitted is the same as that from PM10; this conservative assumption was made due to the lack of empirical data but it reasonable to believe that the product has only a fraction of the finer particles.

Solids Handling – Raw Material Additions (Filter aids, additives, etc.)

- 14) Do not add raw materials
- 15) Restrict adding raw materials
- 16) Reclaiming resin

These sources make up a small fraction of the facility's particulate emissions. As discussed above, restricting the use of raw materials is not justifiable due to lost production and the very low potential benefit. Eastman notes that current representations of emissions from these sources assumes that the PM2.5 emitted is the same as that from PM10; this conservative assumption was made due to the lack of empirical data but it reasonable to believe that the materials being added have only a fraction of the finer particles.

Miscellaneous Activities

- 1) Abrasive Blasting: Refrain from abrasive blasting.
- 2) Open Burning: Refrain from open burning

Eastman will conform to ACHD regulations that restrict abrasive blasting and open burning during emission episodes.

Mon Valley Air Pollution Mitigation Plan - Eastman Chemical Resins, Inc.
Attachment 1 - List of Sources and Predicted Reductions

Date Prepared: 2/14/2022

| Watch Phase | | | Block 13: Provide active spreadsheet with the following | | | | | | | | | | | | | | | | |
|---|--------------------------------------|---|---|--------------|-------------|-------------|--|-------------|-------------|-------------|---|---|--|--|---|---|--|--|---|
| Block 5: List of Equipment that emits PM ₁₀ or PM _{2.5} | | | | | | | | | | | | | | | | | | | |
| Plant | Equipment Type | Equipment Description | a. Calculations of PM ₁₀ for each of past 4 years 2017 - 2020 in TPY for each piece of equipment (PM ₁₀ /PM _{2.5}) [From AES] | | | | a. Calculations of PM _{2.5} for each of past 4 years 2017 - 2020 in TPY for each piece of equipment (PM ₁₀ /PM _{2.5}) [From AES] | | | | b. Calculations of average 4 year emissions PM ₁₀ in lb/hr for each piece of equipment | b. Calculations of average 4 year emissions PM _{2.5} and PM ₁₀ in lb/hr for each piece of equipment | Percent Contribution of Facility Total Emissions | c. Feasible emission reduction of PM ₁₀ in lb/hr for each piece of equipment as well as site total. | c. Feasible emission reduction of PM _{2.5} in lb/hr for each piece of equipment as well as site total. | d. Feasible emission reduction of PM ₁₀ percent from 4 year average for each piece of equipment as well as site total. | d. Feasible emission reduction of PM _{2.5} percent from 4 year average for each piece of equipment as well as site total. | Basis of Reduction Estimate | |
| | | | 2017 | 2018 | 2019 | 2020 | 2017 | 2018 | 2019 | 2020 | | | | | | | | | lb/hr |
| LTC | Cooling Tower | #1 LTC (Flaker) J-101-1 | | | | | | | | | | | | | | | | | |
| LTC | Cooling Tower | #2 LTC (WW LTC) J-645 | | | | | | | | | | | | | | | | | |
| LTC | Cooling Tower | #4 LTC J-40301-1 | | | | | | | | | | | | | | | | | |
| C5 | Cooling Tower | C5 J-1000-1 (Replaced "C5 Old") | | | | | | | | | | | | | | | | | |
| C5 | Cooling Tower | C5 J-1200-1 | | | | | | | | | | | | | | | | | |
| C5 | Cooling Tower | C5 New J-1000-5 | | | | | | | | | | | | | | | | | |
| C5 | Cooling Tower | C5 Pastillator Tower | | | | | | | | | | | | | | | | | |
| Boiler House | Cooling Tower | Emulsion/BH J-4010-1 | | | | | | | | | | | | | | | | | |
| Hydro | Cooling Tower | Hydro J-4005-1 | | | | | | | | | | | | | | | | | |
| MP Poly | Cooling Tower | MP Poly J-1000-1 | | | | | | | | | | | | | | | | | |
| Pilot Plant | Cooling Tower | Pilot Plant | | | | | | | | | | | | | | | | | |
| WW Poly | Cooling Tower | WW Poly J-4060-1 | | | | | | | | | | | | | | | | | |
| Site | Cooling Tower | All Towers (from AES) | 5.676 | 5.676 | 5.676 | 6.033 | 5.676 | 5.676 | 5.676 | 6.033 | 1.316 | 1.316 | 58% | 0.33 | 0.33 | 25% | 25% | 25% reduction in solids in cooling water averaged across all towers is believed possible. Practicality of actual benefits are to be determined and may be less or greater depending upon incoming water quality and the water quality of the recirculating water at the time of the warning. | |
| Site | Paved Roads | Site | 0.028 | 0.031 | 0.034 | 0.044 | 0.007 | 0.008 | 0.008 | 0.011 | 0.089 | 0.008 | 4% | 0.0891 | 0.0077 | 20% | 20% | | 20% reduction in vehicle speeds |
| Site | Unpaved Roads | Site | 1.515 | 1.691 | 1.823 | 2.364 | 0.152 | 0.169 | 0.182 | 0.236 | 0.422 | 0.042 | 19% | 0.4219 | 0.0422 | 20% | 20% | | 20% reduction in vehicle speeds |
| Boilers | Boiler | Unilux Boiler #1 | 0.179 | 0.151 | 0.227 | 0.184 | 0.179 | 0.015 | 0.227 | 0.184 | 0.042 | 0.042 | 2% | No feasible reductions are possible. | No feasible reductions are possible. | | | | Options are not feasible due to excessive cost and minimal potential benefit. This category's sources are small emission sources already well controlled. |
| Boilers | Boiler | Unilux Boiler #2 | 0.104 | 0.160 | 0.143 | 0.147 | 0.104 | 0.160 | 0.143 | 0.147 | 0.032 | 0.032 | 1% | | | | | | |
| Boilers | Boiler | Unilux Boiler #3 | | | | | | | | | | | | | | | | | |
| Boilers | Boiler | Unilux Boiler #4 | 0.104 | 0.160 | 0.143 | 0.147 | 0.104 | 0.160 | 0.143 | 0.147 | 0.032 | 0.032 | 1% | | | | | | |
| Boilers | Boiler | Trane Boiler - Nat gas | 0.041 | 0.089 | 0.106 | 0.072 | 0.041 | 0.089 | 0.106 | 0.072 | 0.018 | 0.018 | 1% | | | | | | |
| Boilers | Boiler | Trane Boiler - Oil | 0.000 | 0.000 | 0.000 | NA | 0.000 | 0.000 | 0.000 | NA | NA | NA | NA | | | | | | |
| LTC | Heater | LTC #2 Hot Oil Heater | 0.037 | 0.017 | 0.021 | 0.035 | 0.037 | 0.017 | 0.021 | 0.035 | 0.006 | 0.006 | 0% | | | | | | |
| LTC | Heater | LTC #4 Hot Oil Heater | 0.025 | 0.025 | 0.033 | 0.025 | 0.025 | 0.025 | 0.033 | 0.025 | 0.006 | 0.006 | 0% | | | | | | |
| C5 | Heater | C5 Hot Oil Heater | 0.056 | 0.057 | 0.051 | 0.044 | 0.056 | 0.057 | 0.051 | 0.044 | 0.012 | 0.012 | 1% | | | | | | |
| C5 | Oxidizer | C5 Thermal Oxidizer | 0.021 | 0.008 | 0.026 | 0.019 | 0.021 | 0.008 | 0.026 | 0.019 | 0.003 | 0.003 | 0% | | | | | | |
| Boilers | Diesel Engine | Emergency Generator (Permit emissions) | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.020 | 0.020 | 1% | 0.02 | 0.02 | 100% | 100% | Non-operation during Warning except as needed for emergency conditions. | |
| Site | Water heaters, comfort heaters, etc. | Miscellaneous Natural Gas Usage | 0.020 | 0.009 | 0.006 | 0.012 | 0.020 | 0.009 | 0.006 | 0.012 | 0.003 | 0.003 | 0% | No feasible reductions are possible. | No feasible reductions are possible. | | | Options are not feasible due to excessive cost and minimal potential benefit. This category's sources are small emission sources already well controlled. | |
| LTC | Baghouse/ Scrubber | # 1 Pastillator Belt Baghouse | 0.007 | 0.006 | 0.007 | 0.070 | 0.007 | 0.006 | 0.007 | 0.070 | 0.004 | 0.004 | 0% | No feasible reductions are possible | No feasible reductions are possible | | | Options are not feasible due to excessive cost and minimal potential benefit. This category's sources are small emission sources already well controlled | |
| LTC | Baghouse/ Scrubber | #2 Pastillator Belt Baghouse | 0.059 | 0.055 | 0.059 | 0.060 | 0.059 | 0.055 | 0.059 | 0.060 | 0.135 | 0.135 | 6% | | | | | | |
| LTC | Baghouse/ Scrubber | Berndorf Pastillator Belt Baghouse | 0.026 | 0.024 | 0.024 | 0.252 | 0.026 | 0.024 | 0.024 | 0.252 | 0.019 | 0.019 | 1% | | | | | | |
| C5 | Baghouses | ALCl ₃ Silo | 0.001 | 0.001 | 0.000 | 0.000 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0% | | | | | | |
| C5 | Baghouses | ALCl ₃ Receiver | 0.007 | 0.006 | 0.003 | 0.003 | 0.007 | 0.006 | 0.003 | 0.003 | 0.004 | 0.004 | 0% | | | | | | |
| C5 | Baghouses | ALCl ₃ Charging Chamber | 0.357 | 0.331 | 0.157 | 0.159 | 0.357 | 0.331 | 0.157 | 0.159 | 0.057 | 0.057 | 3% | | | | | | |
| C5 | Baghouse | Reclaim Dump Station | 0.021 | 0.035 | 0.003 | 0.003 | 0.021 | 0.035 | 0.003 | 0.003 | 0.004 | 0.004 | 0% | | | | | | |
| C5 | Baghouse | Inhibitor Dump Station | 0.005 | 0.005 | 0.001 | 0.001 | 0.005 | 0.005 | 0.001 | 0.001 | 0.001 | 0.001 | 0% | | | | | | |
| Dresinate | Baghouse | Dresinate Production Line | 0.065 | 0.117 | 0.085 | 0.087 | 0.065 | 0.117 | 0.085 | 0.087 | 0.014 | 0.014 | 1% | | | | | | |
| C5 | Filter/Demister/ Baghouse | C5 Pastillator Belt and Solids Handling | 1.653 | 2.011 | 0.036 | 0.033 | 1.653 | 2.011 | 0.036 | 0.033 | 0.008 | 0.008 | 0% | | | | | | |
| WW Poly | Baghouse | Reclaim Pot Dust Collector | | 0.003 | 0.002 | 0.005 | | 0.003 | 0.002 | 0.005 | 0.001 | 0.001 | 0% | | | | | | |
| WW Poly | Cartridge Filter | Slurry Bag Dump Station Filter | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0% | | | | | | |
| WW Poly | Cartridge Filter | Lime-FilterAid Bag Dump Station | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0% | | | | | | |
| C5 | Cartridge Filter | Sparkler Filter | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0% | | | | | | |
| MP Poly | Baghouse | MP Poly Lime Receiver | 0.197 | 0.070 | 0.072 | 0.052 | 0.197 | 0.070 | 0.072 | 0.052 | 0.022 | 0.022 | 1% | | | | | | |
| MP Poly | Baghouse | MP Poly Precoat Tank | 0.027 | 0.014 | 0.017 | 0.011 | 0.027 | 0.014 | 0.017 | 0.011 | 0.004 | 0.004 | 0% | | | | | | |
| MP Poly | Baghouse | MP Poly Lime Silo | 0.000 | 0.001 | 0.001 | 0.000 | 0.000 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0% | | | | | | |
| C5 | | C5 Reclaim Dump Station | 0.021 | 0.035 | 0.003 | 0.003 | 0.021 | 0.035 | 0.003 | 0.003 | 0.004 | 0.004 | 0% | | | | | | |
| C5 | | Sparkler Precoat Tank | 0.000 | 0.000 | 0.020 | 0.000 | 0.000 | 0.000 | 0.020 | 0.000 | 0.005 | 0.005 | 0% | | | | | | |
| SITE TOTALS | | | 10.16 | 10.64 | 8.64 | 9.73 | 8.77 | 8.96 | 6.98 | 7.57 | 2.25 | 1.79 | | 0.86 | 0.40 | 38% | 22% | | |