



Building a Better World
for All of Us™

January 17, 2013

RECEIVED
JAN 18 2013
BY: _____

DE # 4268

RE: Part 70 Air Permit Renewal
Permit Application
Sanimax USA, Inc.
SEH No. NACME 123033

Fiscal Services – 6th Floor
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Dear Air Quality Permit Technical Advisor:

Enclosed please find an electronic copy of the Title V Part 70 air permit renewal application for Sanimax USA Inc, of South St. Paul, Minnesota. The original signed certification form is also enclosed. The facility operates under Air Emission Permit No. 03700070-006, which expires on July 18, 2013.

If you have any questions regarding this permit renewal application, please contact us as noted below, or Troy Bech, Environmental Health & Safety Supervisor at Sanimax (651.451.6858 Ext. 1520 or troy.bech@sanimax.com).

Sincerely Yours,

Katie Hill Brandt, PE
Environmental Engineer
651.490.2032
khillbrandt@sehinc.com

Todd Potas, PE
Project Manager
651.490.2174
tpotas@sehinc.com

KHB/amc

c: Troy Bech, Sanimax USA Inc
Jon Grad, NAC Mechanical & Electrical Services

s:\ko\n\nacme\123033\4-prelim-dsgn-rpts\permit application report 111413.docx

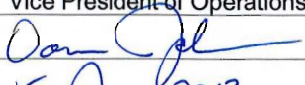
RECEIVED
JAN 18 2013

DQ #4268

Choose one of the following:

- ☒ I certify that no construction is associated with the permit action sought by this permit application.
- ☐ I certify that my project includes construction, but construction has not yet been started except as allowed under Minn. R. 7007.1110, subp. 10 or Minn. R. 7007.1250, subp. 4, and will not begin until the permit is issued except as allowed under Minn. R. 7007.1110, subp. 12; Minn. R. 7007.1142, subp. 2; Minn. R. 7007.1150, item C; or Minn. R. 7007.1450, subp. 7.
- ☐ My project includes construction, and construction other than what is allowed under Minnesota Rules has been started

Permittee responsible official:

Mr./Ms. Donn Johnson
Title: Vice President of Operations
Signature: 
Date: 15 Jan 2013

Co-Permittee responsible official (if applicable)

Mr./Ms. _____
Title: _____
Signature: _____
Date: _____

8) Package Submittal

Applications, notifications, and/or requests that are submitted without authorized signature(s) (under Submittal Certification for all applications and under Confidentiality Certification if you are seeking confidential treatment of any information in the application); without required forms, and/or without the required application fee, will be returned. Please make your check out to the Minnesota Pollution Control Agency. Send the complete application package and check to:

**Fiscal Services – 6th Floor
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194**

You may choose to submit your application as a "pdf" file on a compact disc (CD). If you choose this option, you must still include a paper copy of any form that requires a signature.

Permit Application

Part 70 Air Permit Renewal

Sanimax USA, Inc.

SEH No. NACME 123033

January 17, 2013



Building a Better World
for All of Us™

Engineers | Architects | Planners | Scientists



Building a Better World
for All of Us™

January 17, 2013

RE: Part 70 Air Permit Renewal
Permit Application
Sanimax USA, Inc.
SEH No. NACME 123033

Fiscal Services – 6th Floor
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Dear Air Quality Permit Technical Advisor:

Enclosed please find an electronic copy of the Title V Part 70 air permit renewal application for Sanimax USA Inc, of South St. Paul, Minnesota. The original signed certification form is also enclosed. The facility operates under Air Emission Permit No. 03700070-006, which expires on July 18, 2013.

If you have any questions regarding this permit renewal application, please contact us as noted below, or Troy Bech, Environmental Health & Safety Supervisor at Sanimax (651.451.6858 Ext. 1520 or troy.bech@sanimax.com).

Sincerely Yours,

Katie Hill Brandt, PE
Environmental Engineer
651.490.2032
khillbrandt@sehinc.com

Todd Potas, PE
Project Manager
651.490.2174
tpotas@sehinc.com

KHB/amc

c: Troy Bech, Sanimax USA Inc
Jon Grad, NAC Mechanical & Electrical Services

s:\ko\n\nacme\123033\4-prelim-dsgn-rprts\permit application report 111413.docx

Part 70 Air Permit Renewal
Permit Application
Sanimax USA, Inc.

SEH No. NACME 123033

January 17, 2013

Short Elliott Hendrickson Inc.
3535 Vadnais Center Drive
Saint Paul, MN 55110-5196

Distribution List

No. of Copies

Sent to

1

Fiscal Services – 6th Floor
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

1

Troy Bech
Sanimax USA, Inc.
505 Hardman Road
South St Paul, MN 55075

1

Jon Grad
NAC Mechanical & Electrical Services
1001 Labore Industrial Court, Suite B
Vadnais Heights, MN 55110

Executive Summary

Sanimax USA Inc. (Sanimax) submits this Part 70 air permit renewal application as required by Minnesota Pollution Control Agency (MPCA) Air Emission Permit No. 03700070-006 for the animal, vegetable and food processing waste recycling plant located at 505 Hardman Avenue South, Dakota County, South St. Paul, MN 55075.

There are no changes or modifications to the facility for this renewal application, beyond minor changes to facility potential to emit (PTE) calculations. Some typographical corrections have also been completed at this time.

Table of Contents

Letter of Transmittal	
Title Page	
Distribution List	
Executive Summary	
Table of Contents	
	Page
1.0 Introduction	1
2.0 Potential to Emit Summary	1
3.0 Regulatory Applicability	2
4.0 Permit Updates	2

List of Tables

Table 1	Facility PTE	1
---------	--------------	---

List of Appendices

Appendix A	MPCA Application Forms
Appendix B	Emission Calculations

Permit Application

Part 70 Air Permit Application Renewal

Prepared for Sanimax USA, Inc.

1.0 Introduction

Sanimax USA, Inc. (Sanimax) submits this Part 70 air permit renewal application as required by Minnesota Pollution Control Agency (MPCA) Air Emission Permit No. 03700070-006. Sanimax is located in South St. Paul, Minnesota and recycles animal, vegetable, and food processing waste materials. The products manufactured from these recycled materials are primarily used by the animal feed manufacturing and chemical industries. The principle products processed at Sanimax's manufacturing facility are: beef, poultry, and pork by-products; animal and vegetable oils; and a variety of other recycled waste materials from food processing, meat processing, and livestock industries.

2.0 Potential to Emit Summary

Emission units and control devices currently permitted at the facility include two boilers; a dryer; two pneumatic conveyance systems; two storage silos; a continuous milling system with a particulate capture unit for emission control; two continuous cookers; a protein recovery facility made up of two small cookers and a small indirectly heated dryer, and a recently constructed processing system, "PPF," which includes a cooker, multiple presses, and a milling system. The facility utilizes particulate capture units, fabric filters, and venturi scrubbers for control of particulate matter (PM), PM less than 10 microns in diameter (PM₁₀), and PM less than 2.5 microns in diameter (PM_{2.5}) emissions. The venturi scrubbers also provide some incidental control of volatile organic compound (VOC) emissions.

The facility-wide potential to emit (PTE) for criteria pollutants PM, PM₁₀, PM_{2.5}, sulfur dioxide (SO₂), oxides of nitrogen (NO_x), carbon monoxide (CO), and VOC; carbon dioxide equivalents (CO₂e), and hazardous air pollutants (HAPs) is provided in Table 1 below.

Table 1
Facility PTE

PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC	CO ₂ e	Single HAP*	All HAPs
57.6	50.2	31.8	240	96.0	26.5	13.0	55,220	0.57	0.84
*Single largest HAP is hexane from natural gas combustion.									

3.0 Regulatory Applicability

The Sanimax facility is a major source under the Part 70 permit program and a synthetic minor source with respect to the Prevention of Significant Deterioration (PSD) permit program. A facility-wide SO₂ limit of 240 tpy is in place to limit combustion emissions of SO₂ to below the PSD threshold of 250 tpy. The facility is a minor (area) source of HAP emissions.

Boiler No. 1 (EU001) at Sanimax is subject New Source Performance Standard (NSPS) for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971 (40 CFR Part 60 Subpart D). Boiler No. 2 (EU006) is subject to NSPS for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60 Subpart Dc). As a minor source of HAPs, the facility is not subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) under 40 CFR Part 61. The facility is not subject to any area source NESHAPs under 40 CFR Part 63.

Air dispersion modeling of PM₁₀ and PM_{2.5} emissions was conducted for the facility as part of the last permit modification application. The modeling results indicated that the facility is in compliance with Minnesota and National Ambient Air Quality Standards (MAAQS/NAAQS) for PM₁₀ and PM_{2.5}.

4.0 Permit Updates

There are no changes or modifications to the facility for this renewal application, beyond some typographical corrections and minor changes to facility potential to emit (PTE) calculations. Discrepancies were noted when comparing PTE calculations provided by the MPCA with the facility PTE summary in the Technical Support Document (TSD) to Air Emission Permit No. 03700070-006. Table 3 in the TSD indicates that emissions of PM and PM₁₀ are about 5 tpy lower than the actual facility-wide PTE, with emissions PM_{2.5} about 3 tpy lower than the actual facility-wide PTE. Other minor discrepancies were found due to rounding. The updated facility PTE calculations are included in Appendix B, with changes noted on the appropriate MPCA application forms in Appendix A.

Additionally, some typographical corrections have been completed at this time. These changes are also noted in the MPCA application forms.

Appendix A

MPCA Application Forms



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

SCP-01: Submittal Cover Page

Permit Application/Notification/
Determination Request Fee Submittal
Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 7

- 1a) AQ Facility ID No.: 03700070 1b) AQ File No.: 578
- 2) Facility Name: Sanimax USA Inc.
- 3) Submittal is (choose from the following options and then complete the remainder of item 3 as directed:
- ☐ The final certified (or recertified) version of a previously-submitted permit application. **Complete Section 3A.**
 - ☐ Additional or supplemental information requested by permit staff during the permit-writing process. **Complete Section 3A.**
 - ☐ A request that the Minnesota Pollution Control Agency (MPCA) make an applicability determination. **Complete Section 3A.**
 - ☐ An application for a new individual Part 70 or State permit – choose **one** of the following:
 - ☐ This is the original application or replacement for a denied application – **Complete Section 3B.**
 - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application – **Complete Section 3B.**
 - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application – **Complete Section 3E.**
 - ☒ An application for reissuance of an individual Part 70 or State permit – choose **one** of the following:
 - ☒ This is the original application or replacement for a denied application – **Complete Section 3B.**
 - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application – **Complete Section 3B.**
 - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application – **Complete Section 3E.**
 - ☐ An application for an amendment to an existing individual Part 70 or State permit – choose **one** of the following:
 - ☐ This is the original application or replacement for a denied application – **Complete Section 3B.**
 - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application – **Complete Section 3B.**
 - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application – **Complete Section 3E.**
 - ☐ An application for a Registration Permit, Capped Permit, or General Permit – choose **one** of the following:
 - ☐ This is the original application or replacement for a denied application – **Complete Section 3C.**
 - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application – **Complete Section 3C.**
 - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application – **Complete Section 3E.**
 - ☐ An application for an administrative change to an existing Registration, Capped, or General Permit – choose **one** of the following:
 - ☐ This is the original application or replacement for a denied application – **Complete Section 3C.**
 - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is different than the incomplete application – **Complete Section 3C.**
 - ☐ This is the replacement for an application returned as incomplete (not denied) **and** the scope is exactly the same as in the incomplete application – **Complete Section 3E.**
 - ☐ A notification required under Minn. R. 7007.1150(C); Minn. R. 7007.1250, subp. 4; Minn. R. 7007.1350; or Minn. R. 7007.1110, subp. 10, 11, or 11a. **Complete Section 3D.**
 - ☐ A notification from a hot mix asphalt plant holding a Registration Permit of the intent to incorporate ground tear-off shingles and/or manufacturer scrap shingles in the hot mix asphalt. **Complete Section 3D.**

Section 3A - Request for Applicability Determination, Recertification of a Previously-Submitted Permit Application, or Supplement to a Previously-Submitted Permit Application

Use this section only if your submittal is one of the following:

- The final version of a previously submitted permit application, incorporating changes negotiated through the permitting process, or
- Submittal of additional or supplemental information requested by permit staff during the permit-writing process, or
- A request for the MPCA to make an applicability determination.

For final versions and supplemental information, enter the "tracking number" which can be obtained from the MPCA permit staff working on the permit.

Check one of the boxes below. Do not complete Sections 3B, 3C, 3D, or 3E. Continue with item 4 of the form.

Choose one of the following:	Quantity	Points	Total points
☐ Recertification of a previously-submitted permit application – Tracking No: _____	NA	NA	NA
☐ Supplement to a previously-submitted permit application – Tracking No: _____	NA	NA	NA
☐ An Applicability Determination Request		x 10 =	

Section 3B - Application for an Individual Part 70 or State Permit, Reissuance of an Individual Part 70 or State Permit, or Amendment of an Individual Part 70 or State Permit

Is this application replacing an application that was returned as incomplete (not an application that was denied)?

☒ No ☐ Yes Enter the Tracking Number of the incomplete application being replaced: _____.

Check as many of the boxes below as apply. If your submittal also includes notifications that do not require a permit application, also complete Section 3D. Then continue with item 4 of the form.

Choose one of the following:	Quantity	Points	Total points
☐ Application for an individual Part 70 permit		x 75 =	
☐ Application for an individual State permit		x 50 =	
☒ Application for reissuance of an expiring individual Part 70 or state permit			
Expiration date: 7/18/2013 Application due date (180 days prior to expiration): 1/18/2013	NA	NA	NA
(mm/dd/yyyy) (mm/dd/yyyy)			
☐ Application for a Major Amendment to an individual State or Part 70 permit			
☐ Includes Reconstruction or Modification of a New Source Performance Standards (NSPS) Affected Facility not subject to New Source Review		x 25 =	
☐ Application for a Moderate Amendment to an individual State or Part 70 permit		x 15 =	
☐ Application for a Minor Amendment to an individual State or Part 70 permit		x 4 =	
☐ Application for an Administrative Amendment to an individual State or Part 70 permit		x 1 =	

Additional Information (check all that apply):

- ☐ Submittal was preceded by pre-application work with the MPCA (for example: dispersion modeling or modeling protocol review, AERA review, environmental review). The tracking number associated with the preapplication work is: _____
- ☐ Permit will replace an existing permit of a different type (e.g., replacing a Capped Permit with an individual State permit, or replacing a Part 70 General permit with an individual Part 70 permit).
- ☐ Permit is for construction of a new facility.
- ☐ Permit is required because of a modification to an existing facility, making the facility subject for the first time for the requirement for an air emission permit.
- ☐ Project is subject to Prevention of Significant Deterioration (PSD) (40 CFR § 52.21)
- Send a complete copy of the application to U.S. Environmental Protection Agency (EPA) Region V (see instructions).
 - Contact EPA Region V to begin the Endangered Species Assessment process (see instructions).
- ☐ Permit is required because of installation or modification of a Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP) and/or a Part 60 NSPS Affected Facility at a Stationary Source with Potential-to-Emit below all permit thresholds (Minn. R. 7007.0500, subp. 2.C.(1)).

Section 3C - Application for a Registration, Capped, or General Permit

Is this application replacing an application that was returned as incomplete (not an application that was denied)?

☐ No ☐ Yes Enter the Tracking Number of the incomplete application being replaced: _____.

Check as many of the boxes below as apply. Continue with item 4 of the form.

Choose one of the following:	Quantity	Points	Total Points
☐ Application for a Registration Permit ☐ Option A ☐ Option B ☐ Option C ☐ Option D		x 2 =	
☐ Application for a Capped Permit ☐ Option 1 ☐ Option 2		x 4 =	
☐ Application for a Part 70 General Permit ☐ Manufacturing General Permit ☐ Fiberglass General Permit		x 4 =	
☐ Application for a State General Permit ☐ Nonmetallic Mineral Processing General Permit		x 3 =	
☐ Application for an Administrative Change to an existing Registration, Capped, or General Permit (e.g., change of facility ownership; see instructions for more)		x 1 =	

Additional Information (check all that apply):

- ☐ Permit will replace an existing permit of a different type (e.g., replacing a Registration Permit with a Capped Permit; replacing an Option B Registration Permit with an Option D Registration Permit; etc.)
- ☐ Permit is required for construction of a new facility
- ☐ Permit is required because of a modification to an existing facility, making the facility subject for the first time for the requirement for an air emission permit.
- ☐ Permit is required because of a modification or change making the facility ineligible for its existing air emission permit.

Section 3D - Notifications

If your submittal also includes a permit application, then also complete Section 3A, 3B, 3C, or 3e as applicable. Check all applicable boxes below, then continue with item 4 of the form.

- ☐ A Notification of Accumulated Insignificant Activities (Minn. R. 7007.1250, subp. 4)
- ☐ A Notification of Installation of Pollution Control Equipment (Minn. R. 7007.1150, item C)
- ☐ A Notification of Replacement of a Unit (Minn. R. 7007.1150, item C)
- ☐ A Notification of Replacement of Controls with Listed Controls (Minn. R. 7007.1150, item C)
- ☐ A Notification of Changes That Contravene a Permit Term (Minn. R. 7007.1350)
- ☐ A Notification of Applicability of a New NSPS (applies to Registration Permits) (Minn. R. 7007.1110, subp. 10)
- ☐ A Notification of Changes (not Modifications) Causing a New Permit to be Needed (applies to Registration Permits) (Minn. R. 7007.1110, subp. 11)
- ☐ A Notification of a Regulatory Change Causing a New Permit to be Needed (applies to Registration Permits) (Minn. R. 7007.1110, subp. 11a)
- ☐ A Notification From a Hot Mix Asphalt Plant Including a Request to Incorporate Ground Tear-off Shingles and/or Manufacturer Scrap Shingles in the Hot Mix Asphalt (applies to Registration Permits) Minn. R. 7011.0913, subp. 3)

Section 3E -Replacement for an Incomplete Application Where the Project Scope is Unchanged

Enter the Tracking Number of the incomplete application being replaced: _____.

Check one option under "i" and one option under "ii". Calculate the points difference in "iii". Check all that apply under "iv." Then continue with item 4 of the form.

i. Choose one of the following describing this application:	Quantity	Points	Total Points
☐ Application for an individual Part 70 permit		x 75 =	
☐ Application for an individual State permit		x 50 =	
☐ Application for a Major Amendment to an individual State or Part 70 permit		x 25 =	

☐ Includes Reconstruction or Modification of a New Source Performance Standards (NSPS) Affected Facility not subject to New Source Review			
☐ Application for a Moderate Amendment to an individual State or Part 70 permit		x 15 =	
☐ Application for a Minor Amendment to an individual State or Part 70 permit		x 4 =	
☐ Application for a Registration Permit ☐ Option A ☐ Option B ☐ Option C ☐ Option D		x 2 =	
☐ Application for a Capped Permit ☐ Option 1 ☐ Option 2		x 4 =	
☐ Application for a Part 70 General Permit ☐ Manufacturing General Permit ☐ Fiberglass General Permit		x 4 =	
☐ Application for a State General Permit ☐ Nonmetallic Mineral Processing General Permit		x 3 =	
☐ Application for an Administrative Change to an existing Registration, Capped, or General Permit (e.g., change of facility ownership; see instructions for more)		x 1 =	
i. Choose one of the following describing the incomplete application being replaced:	Quantity	Points	Total Points
☐ Application for an individual Part 70 permit		x 75 =	
☐ Application for an individual State permit		x 50 =	
☐ Application for a Major Amendment to an individual State or Part 70 permit		x 25 =	
☐ Application for a Moderate Amendment to an individual State or Part 70 permit		x 15 =	
☐ Application for a Minor Amendment to an individual State or Part 70 permit		x 4 =	
☐ Application for an Administrative Amendment to an individual State or Part 70 permit		x 1 =	
☐ Application for a Registration Permit ☐ Option A ☐ Option B ☐ Option C ☐ Option D		x 2 =	
☐ Application for a Capped Permit ☐ Option 1 ☐ Option 2		x 4 =	
☐ Application for a Part 70 General Permit ☐ Manufacturing General Permit ☐ Fiberglass General Permit		x 4 =	
☐ Application for a State General Permit ☐ Nonmetallic Mineral Processing General Permit		x 3 =	
☐ Application for an Administrative Change to an existing Registration, Capped, or General Permit (e.g., change of facility ownership; see instructions for more)		x 1 =	
ii. (Points from part i: _____) – (Points from part ii: _____) = Total points for Section 3E. → If the number is negative (e.g., the number from “ii” is larger than the number from “i”, enter “0”).			
iii. Additional Information (check all that apply):			
☐ Submittal was preceded by pre-application work with the MPCA (for example: dispersion modeling or modeling protocol review, AERA review, environmental review). The tracking number associated with the preapplication work is: _____			
☐ Permit will replace an existing permit of a different type (e.g., replacing a Capped Permit with an individual State permit, or replacing a Part 70 General permit with an individual Part 70 permit)			
☐ Permit is for construction of a new facility.			
☐ Permit is required because of a modification to an existing facility, making the facility subject for the first time for the requirement for an air emission permit.			
☐ Project is subject to Prevention of Significant Deterioration (PSD) (40 CFR § 52.21) • Send a complete copy of the application to U.S. Environmental Protection Agency (EPA) Region V (see instructions). • Contact EPA Region V to begin the Endangered Species Assessment process (see instructions).			
☐ Permit is required because of installation or modification of a Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP) and/or a Part 60 NSPS Affected Facility at a Stationary Source with Potential-to-Emit below all permit thresholds (Minn. R. 7007.0500, subp. 2.C.(1)).			

4) Total Points ("total points" from Section 3A, 3B, 3C, or 3E part iii)

0**5) Total Application Fee**
$$\frac{0}{\text{(total points from item 4)}} \times \$285 = \$0.00$$

(fee amount)

The application fee amount is \$285 per point, payable to the MPCA. Send your payment ("fee amount") with your submittal. The fee is not refundable, per Minn. R. 7002.0016, subp. 1. There may be additional fees assessed during processing of your request, as required by Minn. R. ch. 7002.

6a) Confidentiality Statement:

- ☒ This application does not contain material claimed to be confidential under Minn. Stat. §§ 13.37 subd. 1(b) and 116.075. Skip item 6b, go to item 7.
- ☐ This application contains material which is claimed to be confidential under Minn. Stat. §§ 13.37 subd. 1(b) and 116.075. Complete Item 6b. Your submittal must include both Confidential and Public versions of your application.

Registration Permit applicants may not claim any portion of their application as confidential. If applying for a Registration permit or an administrative change to a Registration Permit, you must check the first box above ("This application does not contain.....").

- ☐ Confidential Copy of Application attached ☐ Public Copy of Application attached

6b) Confidentiality Certification

To certify data for the confidential use of the MPCA, a responsible official must read the following, certify to its truth by filling in the signature block on the following page, and provide the stated attachments.

- ☐ I certify that the enclosed permit application(s) and all attachments have been reviewed by me and do contain confidential material. I understand that only specific data can be considered confidential and not the entire application or permit. I certify that I have enclosed the following to comply with the proper procedure for confidential material:
- ☐ I have enclosed a statement identifying which data contained in my application I consider confidential, and I have explained why I believe the information qualifies for confidential (or non-public) treatment under Minnesota Statutes.
 - ☐ I have explained why the data for which I am seeking confidential treatment should not be considered "emissions data" which the MPCA is required to make available to the public under federal law.
 - ☐ I have enclosed an application containing all pertinent information to allow for completion and issuance of my permit. This document has been clearly marked "confidential".
 - ☐ I have enclosed a second copy of my application with the confidential data blacked out (not omitted or deleted entirely). It is evident from this copy that information was there, but that it is not for public review. This document has been clearly marked "public copy".

Permittee responsible official:

Mr./Ms. _____
Title: _____
Signature: _____
Date: _____

Co-Permittee responsible official (if applicable)

Mr./Ms. _____
Title: _____
Signature: _____
Date: _____

7) Submittal Certification

I certify under penalty of law that the enclosed documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I also certify, in accordance with Minn. R. 7007.0500, subp. 2 (K)(2) and subp. 2 (K)(3), that I have reviewed the procedures implemented by my facility to maintain compliance and that those procedures are, to the best of my knowledge and belief, reasonable to maintain compliance with all applicable requirements, including those that will become applicable during the term of the permit.

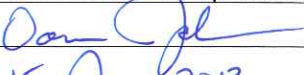
Choose one of the following:

- ☒ I certify that no construction is associated with the permit action sought by this permit application.
- ☐ I certify that my project includes construction, but construction has not yet been started except as allowed under Minn. R. 7007.1110, subp. 10 or Minn. R. 7007.1250, subp. 4, and will not begin until the permit is issued except as allowed under Minn. R. 7007.1110, subp. 12; Minn. R. 7007.1142, subp. 2; Minn. R. 7007.1150, item C; or Minn. R. 7007.1450, subp. 7.
- ☐ My project includes construction, and construction other than what is allowed under Minnesota Rules has been started

Permittee responsible official:

Mr./Ms. Donn Johnson

Title: Vice President of Operations

Signature: 

Date: 15 Apr 2013

Co-Permittee responsible official (if applicable)

Mr./Ms. _____

Title: _____

Signature: _____

Date: _____

8) Package Submittal

Applications, notifications, and/or requests that are submitted without authorized signature(s) (under Submittal Certification for all applications and under Confidentiality Certification if you are seeking confidential treatment of any information in the application); without required forms, and/or without the required application fee, will be returned. Please make your check out to the Minnesota Pollution Control Agency. Send the complete application package and check to:

**Fiscal Services – 6th Floor
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194**

You may choose to submit your application as a "pdf" file on a compact disc (CD). If you choose this option, you must still include a paper copy of any form that requires a signature.



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

CK-01-R

Reissuance Application Requirements

Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 3

1a) AQ Facility ID No.: 03700070 1b) AQ File No.: 578

2) Facility Name: Sanimax USA Inc.

3) Minn. R. 7007.0600 describes what a complete permit application must include. The items in the following list constitute a complete application. Please complete the following to verify that you have included all the needed forms and information.

Included	Not Included	Form	When Required
☒	☒	SCP-01 Submittal Cover Page	Always
☒	☒	IA-01-R Insignificant Activities Supplemental Information	Always
☒	☒	CH-01-R Previous Modifications Made	Always
☒	☒	CH-15 SIP Changes and Permits	Always
☒	☒	TM-01 Testing & Modeling Information	Always
☒	☒	CK-01-R Complete Reissuance Application Requirements	Always
☒	☒	GI-01-R Facility Information Supplemental Information	Always
☒	☒	GI-02-R Updated Process Flow Diagram	Always
☒	☐	Separate Flow Diagram	When not drawn directly on GI-02-R
☒	☒	GI-03-R Building and Structure Information and Stack/Vent Diagram	Always
☒	☒	Facility Description: Buildings (BG) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☒	☒	Separate Building and Stack/Vent diagram	When not drawn directly on GI-03-R
☒	☒	GI-04-R Facility Description: Stack/Vents (SV) Supplemental Information	Always
☒	☒	Facility Description: Stack/Vents (SV) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☒	☒	GI-05A-R Facility Description: Control Equipment (CE) Supplemental Information	Always
☒	☒	Facility Description: Control Equipment (CE) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☐	☒	HE-01 Hood Evaluation	When permitting new control equipment not a total enclosure
☐	☒	CR-02 Hood Certification	When permitting new control equipment not a total enclosure
☒	☒	GI-05B-R Facility Description: Emission Unit (EU) Supplemental Information	Always
☒	☒	Facility Description: Emission Unit (EU) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☒	☒	GI-05C-R Facility Description: Storage Tanks (TK) Supplemental Information	Always

Included	Not Included	Form	When Required
☒	☒	Facility Description: Storage Tanks (TK) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☒	☒	GI-05D-R Facility Description: Fugitive Sources (FS) Supplemental Information	Always
☒	☒	Facility Description: Fugitive Sources (FS) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☒	☒	GI-05E-R Facility Description: Groups (GP) Supplemental Information	Always
☒	☒	Facility Description: Groups (GP) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☒	☒	GI-07-R Facility Description: Potential-to-emit (by item) Supplemental Information	Always
☒	☒	Facility Description: Potential-to-emit (by item) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☒	☒	Printout of complete calculations supporting numbers on GI-07R (paper copy if submitting on paper only; included in pdf document if submitting electronically)	Always
☐	☒	Electronic spreadsheet containing all calculations	Always – may submit CD with application, or be prepared to email to MPCA staff upon request
☐	☒	HG-01 Mercury Releases to Ambient Air	When building a new or expanded facility where the new or expanded facility emits mercury (or when changing or modifying operation at an existing facility where the changed or modified units emit Hg) from taconite production secondary metal production, fuel combustion for electricity generation or industrial boilers, or incinerators
☒	☒	ME-01-R Facility Description: Continuous Monitors (MR) Supplemental Information; Facility Description: Data Acquisition Systems (SA) Supplemental Information Facility Description: Continuous Monitoring Systems (CM) Supplemental Information	Always
☒	☒	Facility Description: Continuous Monitors (MR) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☒	☒	Facility Description: Data Acquisition Systems (DA) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☒	☒	Facility Description: Continuous Monitoring Systems (CM) (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☒	☒	GI-09A-R Supplemental Requirements: NESHAP for Source Categories (40 CFR pt. 63)	Always
☐	☒	Highlighted copy(ies) of newly-applicable NESHAP Subpart(s), including Subpart A	When indicated on GI-09A-R
☒	☒	GI-09D-R Supplemental Requirements: NSPS (40 CFR pt. 60)	Always
☐	☒	Highlighted copy(ies) of newly-applicable NSPS Subparts, including Subpart A	When indicated on GI-09D-R
☒	☒	GI-09H Requirements: CAM (40 CFR pt. 64)	Always
☐	☒	CAM Plan	When indicated on GI-09H

Included	Not Included	Form	When Required
☒	☒	CD-01-R Compliance Plan Supplemental Information	Always
☒	☒	Compliance Plan CD-01 (<i>facility-specific, obtained from MPCA and printed on non-white paper</i>)	Always
☐	☒	Form CD-01	When directed on CD-01-R
☒	☒	CD-02-R Compliance Certification and Schedule	Always
☐	☒	GI-09 and all applicable attachments (GI-09A – GI-09I)	When directed on CD-01-R
☐	☒	WC-01 Waste Combustors Needing Permits	When application is for a waste combustor

Instructions for Form CK-01-R

1a) AQ Facility ID No. -- Fill in your Air Quality (AQ) Facility Identification (ID) Number (No.). This is the first eight digits of the permit number for all permits issued under Minn. R. ch. 7007.

1b) AQ File No. -- Fill in your AQ File Number. This number can be found in the "cc" section of correspondence from the Minnesota Pollution Control Agency (MPCA).

2) Facility Name -- Enter your facility name.

3) Complete each line of the table by checking the appropriate box, indicating that the specified form or attachment is included or not included in the application.



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

IA-01-R
Insignificant Activities - Supplemental Information
for Title V Reissuance
Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 2

1a) AQ Facility ID No.: 03700070 **1b)** AQ File No.: 578

2) Facility Name: Sanimax USA Inc.

3) Review the Insignificant Activities listed in Tables IA-01.1 and IA-01.2. Does this facility including any of the Insignificant activities shown in Table IA-01.2?

☒ Yes – Complete Questions 4a and 4b.

☐ No – Done with this form.

4) Description of Activities:

4a)	Rule Citation	4b) Description of activities at the facility
☐	7007.1300, subp. 3(A)	
☐	7007.1300, subp. 3(B)(1)	
☐	7007.1300, subp. 3(B)(2)	
☐	7007.1300, subp. 3(C)	
☒	7007.1300, subp. 3(D)	Miscellaneous fabricating equipment such as drills, grinders, saws, etc.
☐	7007.1300, subp. 3(E)(2)	
☐	7007.1300, subp. 3(F)	
☒	7007.1300, subp. 3(G)	Laboratory equipment
☒	7007.1300, subp. 3(H)(1)	Miscellaneous
☐	7007.1300, subp. 3(H)(2)	
☐	7007.1300, subp. 3(H)(3)	
☒	7007.1300, subp. 3(H)(4)	Brazing, soldering, and welding (equipment used for maintenance purposes only)
☒	7007.1300, subp. 3(H)(5)	Blueprint and photographic process

4a)	Rule Citation	4b) Description of activities at the facility
☐	7007.1300, subp. 3(H)(6)	
☐	7007.1300, subp. 3(H)(7)	
☒	7007.1300, subp. 3(I)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: 1. 4,000 lbs/year of carbon monoxide; and 2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone. These are the following: a. loadout housekeeping vacuum system; and b. inside and outside storage tanks.
☒	7007.1300, subp. 3(J)	Fugitive emissions from paved roads and parking lots (FS 001) Fugitive emissions from unpaved roads (FS 002)
☐	7007.1300, subp. 3(K)	
☒	7007.1300, subp. 4	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: A. potential emissions of 5.7 lbs/hr or actual emissions of two tons per year of carbon monoxide; B. potential emissions of 2.28 lbs/hr or actual emissions of one ton per year of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, or volatile organic compounds C. individual emissions units that have actual emissions of less than or equal to 1 ton per year of the criteria pollutants, and for hazardous air pollutants, emissions units with potential emissions of less than certain thresholds listed in Minn. R. 7007.1300, subps. 4(C)(1) and (2). These are the following: 1. natural gas space and line heaters; and, 2. vegetable oil recovery.
☐	7008.4100	
☐	7008.4110	

Instructions for Form IA-01-R

1a) AQ Facility ID No. -- Fill in your Air Quality (AQ) Facility identification (ID) Number (No.). This is the first eight digits of the permit number for all new permits issued under the operating permit program.

1b) AQ File No. -- Fill in your AQ File Number. This number can be found in the "cc" line of correspondence received from the Minnesota Pollution Control Agency (MPCA).

APPENDIX I: Insignificant Activities and Applicable Requirement**Facility Name: Sanimax USA Inc****Permit Number: 03700070-006**

Under Minn. R. 7007.1250, subp. 1(A), the Permittee may add insignificant activities to the stationary source throughout the term of the permit without getting permit amendments. Certain exclusions apply and are listed in Minn. R. 7007.1250, subp. 2. In addition, this permit specifically prohibits the Permittee from making any modifications that would make the source major under NSR.

The following sources at the Permittee's facility qualify as insignificant activities under Minn. R. 7007.1300, snbps. 2, 3 and 4 and are not required to be listed in the permit.

Subject Item:	Insignificant Activities	
Minn. R. 7007.1300, subp.	Rule Description of the Activity and Comments	General Applicable Requirement
2(D)(3)	Miscellaneous fabricating equipment such as drills, grinders, saws, etc.	Minn. R. 7011.0715 (PM and opacity)
3(D)(2)	Miscellaneous fabricating equipment such as drills, grinders, saws, etc.	Minn. R. 7011.0715 (PM and opacity)
3(G), 4(B) and 4(C)	Laboratory equipment	Minn. R. 7011.0715 (PM and opacity)
3(H)(1)	Miscellaneous	Minn. R. 7011.0715 (PM and opacity)
3(H)(4)	Brazing, soldering, and welding (<i>equipment used for maintenance purposes only</i>)	Minn. R. 7011.0715 (PM and opacity)
3(H)(5)	Blueprint and photographic process	Minn. R. 7011.0715 (PM and opacity)
3(I)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: 1. 4,000 lbs/year of carbon monoxide; and 2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone. These are the following: a. loadout housekeeping vacuum system; and b. inside and outside storage tanks.	Minn. R. 7011.0515 (PM, SO ₂ , and opacity) or Minn. R. 7011.0715 (PM and opacity)
Subp. 3(J)	Fugitive emissions from paved roads and parking lots (FS 001)	Minn. R. 7011.0715 (PM and opacity)
Subp. 3(J)	Fugitive emissions from unpaved roads (FS 002)	Minn. R. 7011.0715 (PM and opacity)

4(A), (B) and (C)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: A. potential emissions of 5.7 lbs/hr or actual emissions of two tons per year of carbon monoxide; B. potential emissions of 2.28 lbs/hr or actual emissions of one ton per year of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, or volatile organic compounds C. individual emissions units that have actual emissions of less than or equal to 1 ton per year of the criteria pollutants, and for hazardous air pollutants, emissions units with potential emissions of less than certain thresholds listed in Minn. R. 7007.1300, subps. 4(C)(1) and (2). These are the following: 1. natural gas space and line heaters; and, 2. vegetable oil recovery.	Minn. R. 7011.0715 (PM, SO ₂ , and opacity)
-------------------	--	--



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

CH-01-R

Title V Reissuance – Previous Modifications
Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 2

1a) AQ Facility ID No.: 03700070 1b) AQ File No.: 578

2) Facility Name: Sanimax USA Inc.

3) Describe any modifications that have been made to the facility, that are not currently reflected in the permit.

☒ None.



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

CH-15

**SIP Changes and Permits
Air Quality Permit Program**

Doc Type: Permit Application

1a) AQ Facility ID No.: 03700070 1b) AQ File No.: 578
2) Facility Name: Sanimax USA Inc.

Section I

I.1 Does your facility have source specific State Implementation Plan (SIP) conditions contained in a Part 70 permit or a federally enforceable state operating permit **or** has your facility been issued an Administrative Order (Order) to ensure compliance with a national ambient air quality standard (NAAQS)? (This would include permit conditions labeled "Title I condition: SIP for [pollutant] NAAQS"). If your facility is listed in Table 1 below, you have source specific SIP conditions.

☐ Yes. Check all applicable pollutants and continue with Section II.

- ☐ Sulfur Dioxide (SO₂)
- ☐ Particulate matter less than 10 microns (PM₁₀)
- ☐ Lead

☒ No. **Stop here**, and submit this form with your application for a permit amendment or operating permit reissuance.

Section II

II.1 Where are the SIP conditions that apply to your facility?

- ☐ In the current operating permit
- ☐ In the Order
- ☐ In both the current operating permit and the Order

II.2 This permit application is for

- ☐ Reissuance of the operating permit
- ☐ An amendment to the current operating permit

Whether you are proposing changes through an application for a facility modification, or if you are submitting a reissuance application and there have been changes at your facility that are not included in the current operating permit or the Order, complete the rest of this form considering those changes as the 'proposed change.' If your facility is subject to the Order, Minnesota Pollution Control Agency (MPCA) will initiate a SIP revision to transfer the Title I conditions from the Order to the Permit.

II.3 Does the proposed change involve equipment or operating parameters that are subject to a Title I SIP condition in your permit or a requirement from your Order?

- ☐ Yes
- ☐ No

II.4 Does the proposed change add an emission unit(s) or stack/vent that will emit the criteria pollutant(s) identified in Section I?

- ☐ Yes
- ☐ No

II.5 Does the proposed change increase the emission rate of the criteria pollutant(s) at any of the existing emission points (emission unit, control equipment or stack/vent)?

- ☐ Yes
- ☐ No

II.6 Does the proposed change increase the overall emission rate of that criteria pollutant at the facility?

- ☐ Yes
- ☐ No

Section III

Review the SIP modeling parameters for your facility. These are usually found in an appendix to your permit or in your Order. For the proposed change at your facility, check all that apply:

- ☐ Addition of new emission point(s) for the criteria pollutant
- ☐ Removal of existing emission point(s) for the criteria pollutant
- ☐ Change in one or more modeled stack/vent heights or diameter
 - ☐ Increase in stack height
 - ☐ Decrease in stack height
 - ☐ Increase in stack diameter
 - ☐ Decrease in stack diameter
- ☐ Change in modeled air flow rate(s)
 - ☐ Increase in air flow rate(s)
 - ☐ Decrease in air flow rate(s)
- ☐ Change in one or more modeled emission rates
 - ☐ Increase in emission rate(s)
 - ☐ Decrease in emission rate(s)
- ☐ Change in location of one or more emission points
- ☐ Change in exit point temperature
 - ☐ Increase in temperature
 - ☐ Decrease in temperature
- ☐ Change in building locations or dimensions
- ☐ Other _____
- ☐ No change to current modeling parameters.

If there are any changes to the modeling parameters, you will need to demonstrate that the plume dispersion characteristics of the criteria pollutant will be equivalent to or better than the dispersion characteristics modeled using the parameters included as noted in the appendix of your permit or in your Order. In many cases you will need to remodel to show attainment with the NAAQS. However, in some cases you may be able to provide a written justification for improved dispersion characteristics.

If you will need to do modeling, it is recommended that you check the MPCA website or contact MPCA staff for guidance on current SIP modeling. SIP modeling requirements may be different than modeling for other programs and may have changed since previous modeling was done for your facility. See the MPCA's on-line SIP and modeling information at <http://www.pca.state.mn.us/veiz4a6> and <http://www.pca.state.mn.us/nwqh421> for current contact information.

Section IV

Will the proposed change require a SIP revision?

In general, a SIP revision is not required if you are making a change to the facility that does not increase, from any emission point, the emission rate of the criteria pollutant or alter equipment or parameters used as the basis for modeling of the criteria pollutant.

If you answered "Yes" to any of the questions in Section II or have identified changes to the modeling parameters for your facility in Section III, you will likely need a SIP revision for your project. If a SIP revision is required for a modification amendment, you must submit a **major** amendment application. If the proposed change includes an increase in emissions of the criteria pollutant or if it is new construction, the current Title I SIP conditions in your permit or the conditions in your Order for your facility must be followed until the SIP revision is approved by U.S. Environmental Protection Agency (EPA). If the proposed change will reduce emissions or will provide better modeled dispersion characteristics that change may proceed with MPCA and EPA approval.

When a SIP revision is part of your permit reissuance or amendment, approval of the reissuance or modification application will include more steps and take more time than the general process for a permit issuance. The SIP revision includes review and approval of the permit application by MPCA, including public notice of the permit. The SIP revision requires a public notice (which may occur concurrently with the permit notice of the draft/proposed permit); EPA generally does a preliminary review of the SIP revision at this time. There is an opportunity for interested parties to request a public meeting during the public notice period. After MPCA's public notice period ends for the draft/proposed permit, MPCA submits the SIP revision to EPA for a formal review and approval. Final approval of the SIP revision occurs when EPA publishes the revision as a final rule in the federal register.

Table 1 Facilities with Source Specific SIP Conditions

Area	Pollutant	Facility
Eagan	Lead	Gopher Resources Corporation
Rochester	PM ₁₀	Rochester Public Utilities ▪ Silver Lake
	SO ₂	Rochester Public Utilities ▪ Cascade Creek ▪ Silver Lake Associated Milk Producers - Rochester Mayo – Franklin Heating Station IBM - Rochester Olmsted Waste to Energy Mayo – St. Mary's Hospital
Twin Cities 7-County Area	SO ₂	Federal Cartridge Company-Anoka Hoffman Enclosures Inc. Xcel Energy ▪ Inver Hills Generating Plant ▪ Riverside Generating Plant GAF Materials Corporation NRG - Minneapolis Energy Center Minneapolis LLC
Rosemount/Pine Bend	SO ₂	Flint Hills Resources Pine Bend Refinery
St. Paul Park/Ashland	SO ₂	St. Paul Park Refining Co. LLC
St. Paul (Childs Road and Red Rock Road)	PM ₁₀	Aggregate Industries, Yard A Cenex Harvest States Coop- Elevator 2 Commercial Asphalt, Inc. Plant 905 Gerdau Ameristeel US Inc. – St. Paul Mill Great Western Dock and Terminal Lafarge North America (Red Rock and Childs Road Terminals) Met Council Wastewater Treatment Plant St. Paul Terminals



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

TM-01

**Testing and Modeling Information
for Title V Reissuance
Air Quality Permit Program**

Doc Type: Permit Application

Instructions on Page 2

- 1a)** AQ Facility ID No.: 03700070 **1b)** AQ File No.: 578
- 2)** Facility Name: Sanimax USA Inc.
- 3)** Was air dispersion modeling required as a condition of your current Part 70 permit?
- ☐ Yes
- ☒ No – Go to Question 6
- 4)** Was the required air dispersion modeling completed?
- ☐ Yes
- ☐ No – Explain, then go to Question 6:
- _____
- 5)** Were any physical changes made to the facility because of the modeling results, or are any changes to the permit required?
- ☐ No
- ☐ Yes – Explain:
- _____
- 6)** Was performance testing (stack testing) required as a condition of your current Part 70 permit?
- ☐ Yes
- ☒ No – Done with this form.
- 7)** Was the required testing completed?
- ☐ Yes
- ☐ No – Explain: _____
- _____
- 8)** Were any operational limits established or are any changes to the permit required as a result of the testing?
- ☐ No
- ☐ Yes – Please list the date(s) of the most recent test report(s) showing results requiring the changes, and the changes required. Attach additional sheets if necessary.
- _____
- _____
- _____

Note: Remember that if you are using test data to report actual emissions on the Emissions Inventory Report, that data must be 10 years old or less, except as described in Minn. R. 7019.3050, item D.



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-01-R

**Facility Information – Supplemental Information
for Title V Reissuance
Air Quality Permit Program**

Doc Type: Permit Application

Instructions on Page 2

- 1) AQ Facility ID No. (first 8 digits of permit number): 03700070
- 2) Facility Name: Sanimax USA Inc.
- 3) **Corporate/Company Owner:**
Name: Sanimax USA Inc.
Mailing Address: PO Box 10067

City: Green Bay State: WI ZIP code: 54307
Owner Classification: ☒ Private ☐ Local Govt ☐ State Govt. ☐ Fed. Govt. ☐ Utility
- 4) **Corporate/Company Operator** (if different than owner):
Name: _____
Mailing Address: _____

City: _____ State: _____ ZIP Code: _____
- 5) **Co-permittee** (if applicable):
Name: _____
Mailing Address: _____

City: _____ State: _____ ZIP Code: _____
- 6) **Legally responsible official** for this permit/facility -- this must be a person meeting the criteria for signing the application (defined in Minn. R. 7007.0100, subp. 22), which is the person who performs policy or decision making functions for the company. (A delegate may be allowed in some cases. Please refer to the rule section listed above.)
Mr./Ms: Donn Johnson Phone: 920-494-5233 ext 1218
Title: Vice President of Operations Fax: 920-494-9141
At (check one): ☒ Owner Address ☐ Operator Address ☐ Emission Facility Address
☐ Other (specify) _____
- 7) **Permit contact person** – this is the person the MPCA should call if there are questions about anything in the application.
Mr./Ms: Troy Bech Phone: 651-315-6858, ext. 1520
Title: Environmental Health & Safety Supervisor Fax: 651-451-6542
At (check one): ☐ Owner Address ☐ Operator Address ☒ Emission Facility Address
☐ Other (specify) _____
e-mail address: troy.bech@sanimax.com
- 8) **Emission Inventory and Billing contact person** – this is the person to whom the MPCA should send the annual emission inventory and emission fee invoices.
Mr./Ms: Troy Bech Phone: 651-315-6858, ext. 1520
Title: Environmental Health & Safety Supervisor Fax: 651-451-6542
At (check one): ☐ Owner Address ☐ Operator Address ☒ Emission Facility Address
☐ Other (specify) _____

- 9) Are you required to submit a *Toxics Release Inventory (Form R)* under SARA Title 313 for this facility? Call the Minnesota Emergency Planning and Community Right-to-Know (EPCRA) Program for more information (651-201-7417).
- ☒ Yes – Continue with this form. The following questions were not asked in previous applications, but are required under Minn. R. 7007.0500, subp. 2(N).
- ☐ No – Done with this form.
- 10) Are you required to prepare a pollution prevention plan under Minn. Stat. § 115D.07?
- ☒ Yes – Go to Question 11.
- ☐ No – Done with this form.
- 11) Have you submitted the most recent pollution prevention plan progress report to the Emergency Response Commission, as required under Minn. Stat. § 115D.08?
- ☒ Yes ☐ No, because: _____
- _____

Instructions for Form GI-01-R

- 1) **AQ Facility ID No.** -- Fill in your Air Quality (AQ) Facility identification (ID) Number (No.). This is the first eight digits of the permit number.
- 2) **Facility Name** -- Enter your facility name.
- 3) **Corporate/Company Owner** -- Fill in the owner name and mailing address. The owner receives the air emission permit from the MPCA. The owner is the "Permittee". Check the one "owner classification box" that most closely describes your facility.
- 4) **Corporate/Company Operator (if different from owner)** -- The operator runs the facility on a day-to-day basis. If a separate management company operates the facility, its name goes here. The operator is also a "Permittee". Fill in if applicable; if not, fill in "N/A".
- 5) **Co-permittee (if applicable)** -- If the emission facility has more than one owner, for example a partnership, then the second owner's name and address go here. Another example is two facilities, owned separately, where one facility exists to support the other; both facilities are subject to one permit and the two owners are considered co-permittees.
- 6) **Legally responsible official for this permit/facility** -- Fill in the name, title, phone number and fax number (if applicable) of the Legally Responsible Official. For the purpose of Form GI-01-R, the Legally Responsible Official must be a person meeting the criteria for signing the application (defined in Minn. R. 7007.0100, subp. 22), which is the person who performs policy or decision making functions for the company. (A delegate may be allowed in some cases. Please refer to the rule section listed above.)

Indicate which address applies to this person by checking the appropriate box.
- 7) **Permit contact** -- Fill in the name, title, phone number, fax number (if applicable), and e-mail address of the individual to whom the permit and other permitting correspondence should be sent. Indicate which address applies to this person by checking the appropriate box.
- 8) **Emission Inventory and Billing contact person** -- Fill in the name, title, phone number, and fax number (if applicable) of the individual to whom the annual emissions inventory and emissions fee billing should be sent. Indicate which address applies to this person by checking the appropriate box. Please identify only one person to be the contact for both the emission inventory and billing.
- 9) **Are you required to submit a Toxics Release Inventory (Form R) under SARA Title 313?** -- Call the Minnesota Emergency Planning and Community Right-to-Know Act (EPCRA) Program at 651-201-7417 -- Place a check in the appropriate box. If you are not required to submit a TRI, you need not answer the remaining questions on this form.
- 10) **Are you required to prepare a pollution prevention plan under Minn. Stat. § 115D.07?** -- Place a check in the appropriate box. In general, all facilities required to submit a TRI are also required to prepare a pollution prevention plan, but there are exceptions and alternatives. Call the Minnesota Emergency Planning and Community Right-to-Know Act (EPCRA) Program at 651-201-7417 if you have questions about this. If you are not required to prepare a pollution prevention plan, then you need not answer question 11.
- 11) **Have you submitted the most recent pollution prevention plan progress report to the Emergency Response Commission?** -- Place a check in the appropriate box. If you were required to prepare a pollution prevention plan, you are required to do progress reports. The Minnesota Pollution Control Agency (MPCA) is required under Minn. R. 7007.0850, subp. 2(A)(2) to report this in a public notice.



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

Page 1 of 2

8 Jan, 2013 07:03

GI-01

FACILITY INFORMATION

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

Permit Action No: PER006

1) AQD Facility ID No.: 03700070

2) Facility Name: Sanimax USA Inc

3) Check the one that applies to your facility:

- ☐ New facility planned or under construction (first permit application)
- ☒ Existing facility, applying for renewal of a total facility operating permit issued by MPCA Air Quality
- ☐ Existing facility, and have never had a total facility operating permit, but have had another type of permit issued by MPCA Air Quality
- ☐ Existing facility, but have never had a total facility operating permit or any other type of permit issued by MPCA Air Quality

4) Facility Location:

Street Address: 505 Hardman Ave
City, County, Zip Code: South St. Paul Dakota 55075
Facility Mailing Address:
Street/Box: 505 Hardman Ave
City, State, Zip Code: South St. Paul MN 55075
Country: USA

5) Corporate/Company Owner:

Name: Sanimax USA Inc
Mailing Address Street/Box: PO Box 10067
City, State, Zip Code: Green Bay WI 54307
Country: USA

Owner Classification:

☒ Private ☐ Local Govt. ☐ State Govt. ☐ Federal Govt. ☐ Utility

6) Corporate/Company Operator (if different than owner):

Name: _____
Mailing Address Street/Box: _____
City, State, Zip Code: _____
Country: _____

7) Co-permittee (if applicable):

Name: _____
Mailing Address Street/Box: _____
City, State, Zip Code: _____
Country: _____

8) Contact person for this permit:

Name: Mr. Troy Bech
First Middle Last
Phone: (651) 451-6858 x 1520 Fax: () - X

Title: EH&S

At (check one):

- ☐ Owner Address ☐ Emission Facility Address
☐ Operator Address ☒ Other (specify)



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

GI-01

FACILITY INFORMATION

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

Permit Action No: PER006

9) All billings for annual fees should be addressed to:

Name: Mr. Troy Bech
First Middle Last
Phone: (651) 451-6858 x 1520 Fax: () - X
Title: EH&S
At (check one): ☐ Owner Address ☐ Emission Facility Address
☐ Operator Address ☒ Other (specify)

10) Standard Industrial Classification (SIC) Code and description for the facility:

Primary: 2077 / Animal and marine fats and oils
Secondary (if applicable): /
Tertiary (if applicable): /

11) Primary product produced (or activity performed) at the facility is:

Recycling of animal and vegetable oil and fats

12) Facility is: ☒ Stationary ☐ Portable

13) Check if the facility is in a non-attainment area for (check all that apply):

☐ CO ☐ Pb ☐ PM-10 ☐ SO2 ☐ Other (specify)
☒ The facility is located in an area which is in attainment or is unclassifiable for all ambient air standards

14) Is environmental review required (either an Environmental Assessment Worksheet (EAW) or an Environmental Impact Statement (EIS))?

☐ Yes ☒ No

15) Are you required to submit a Toxics Release Inventory (Form R) under SARA Title 313?

☒ Yes ☐ No

16) Are you within 50 miles of another state or the Canadian border (if 'Yes' specify which states):

☒ Yes ☐ No Wisconsin

17) Brief description of the source or proposed source to be permitted:

Is in the business of recycling animal, vegetable and food processing waste materials. The products manufactured from these recycled materials are primarily used by the animal feed manufacturing and chemical industries. The principal products processed at Van Hoven Co manufacturing facility are beef, poultry and pork by-products, animal and vegetable oils and a variety of other recyclable waste materials from food processing, meat processing, and livestock industries.

18) Are you proposing any alternative operating or emissions trading scenarios in this application (see Minn. Rules pt. 7007.0800, Subp. 11 and 12)?

☐ Yes ☒ No

If yes, attach a description of your proposal, including a statement on how the proposal will meet all applicable requirements (in particular, please address federal New Source Review requirements, if applicable). See Form GI-09(C).



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-02-R

**Updated Process Flow Diagram
for Title V Reissuance**

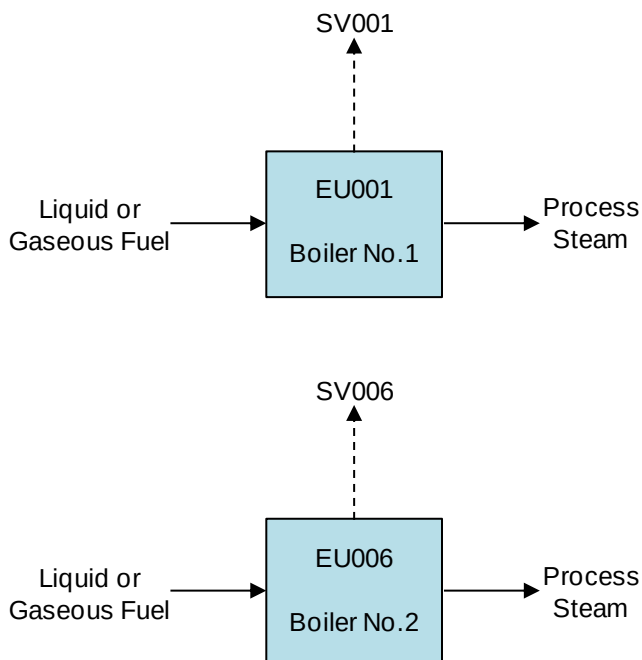
Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 2

- 1) AQ Facility ID No. (first 8 digits of permit number): 03700070
- 2) Facility Name: Sanimax USA Inc.
- 3) Flow Diagram: (insert flow diagram below)

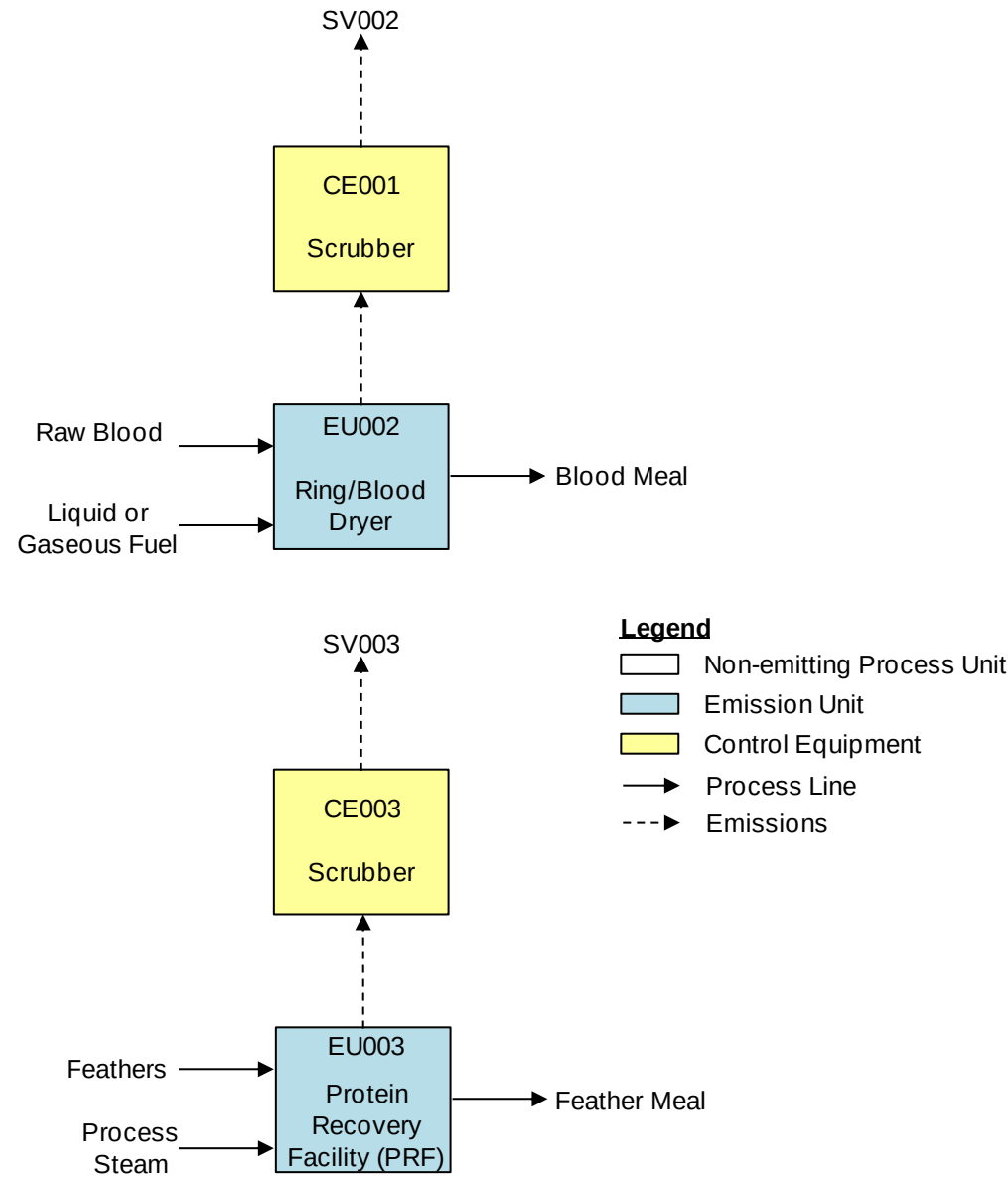
Boilers



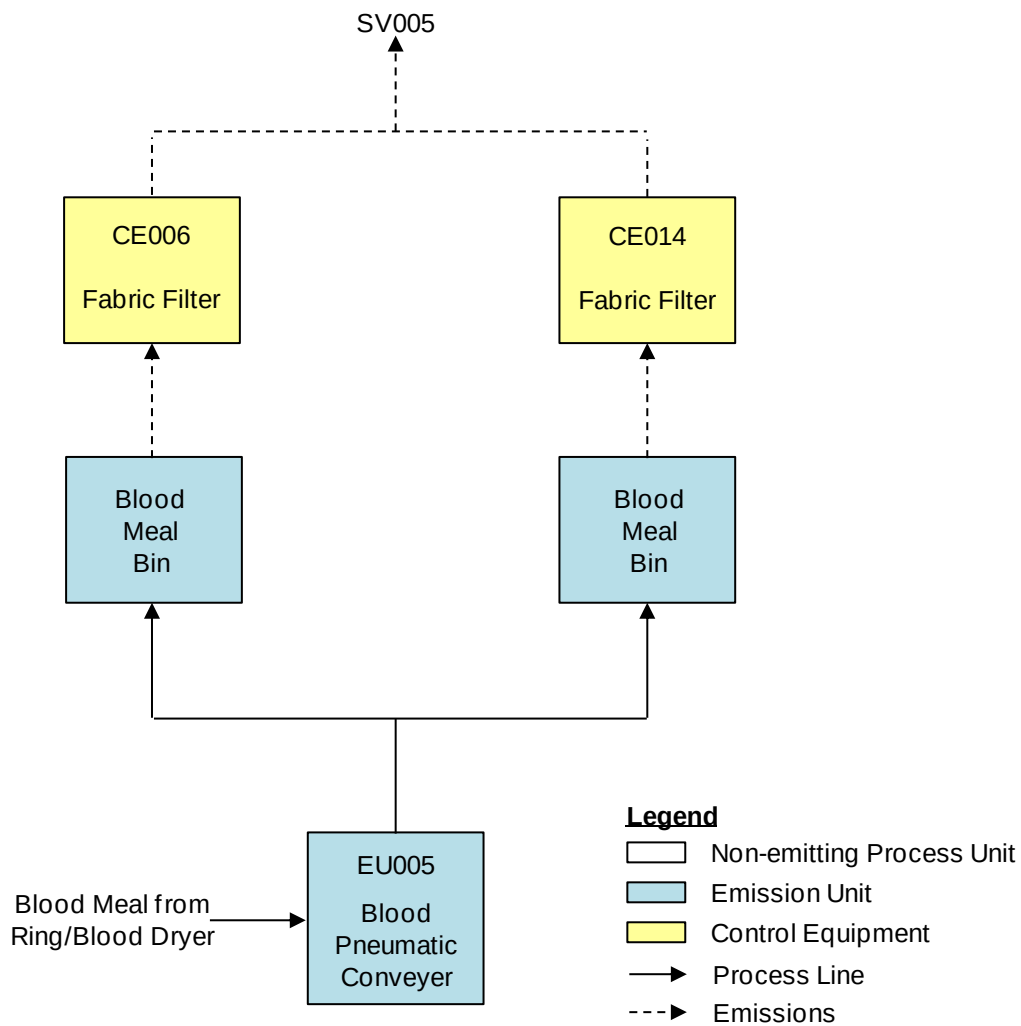
Legend

-  Non-emitting Process Unit
-  Emission Unit
-  Control Equipment
-  Process Line
-  Emissions

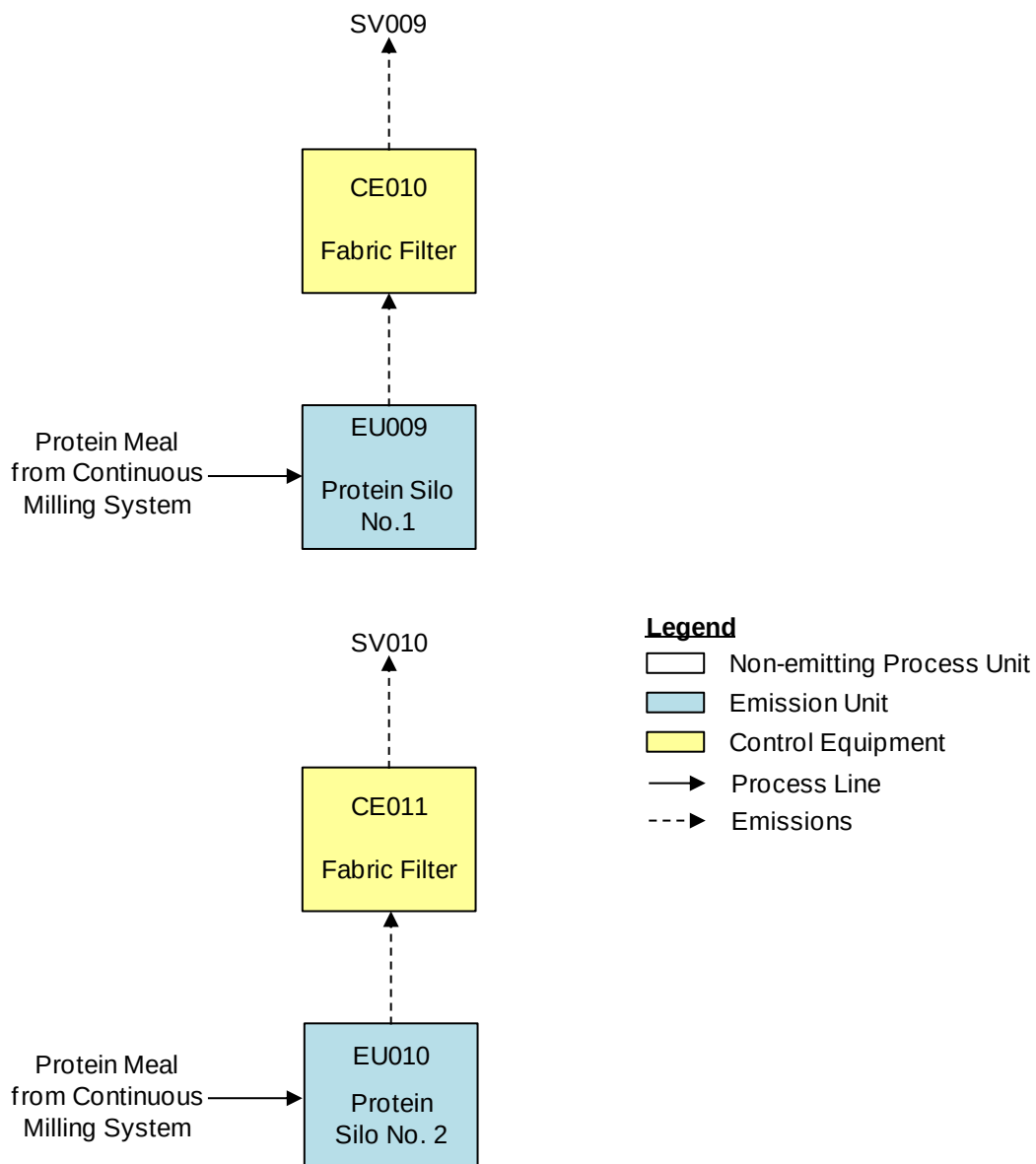
Protein Recovery



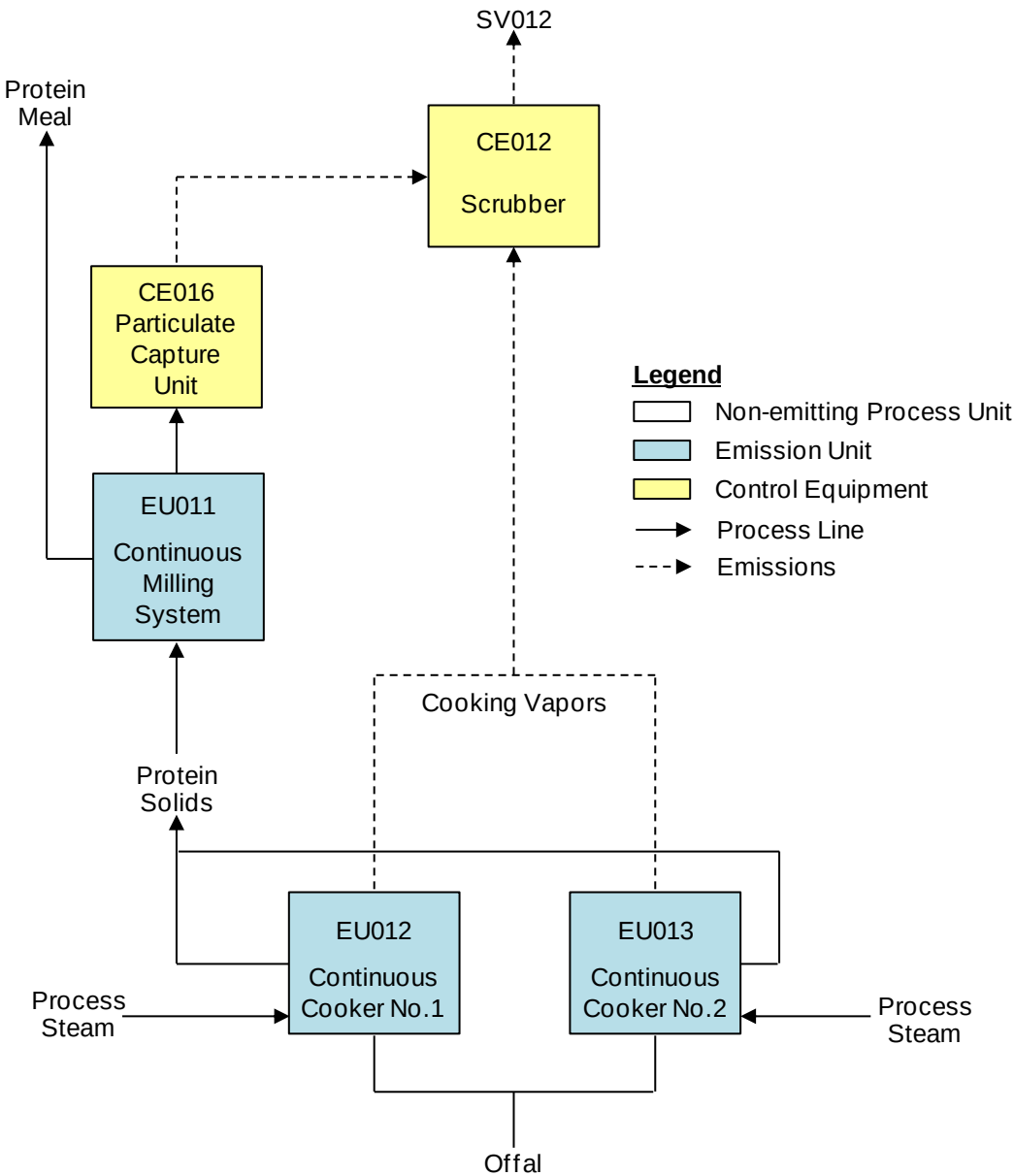
Protein Conveying & Storage



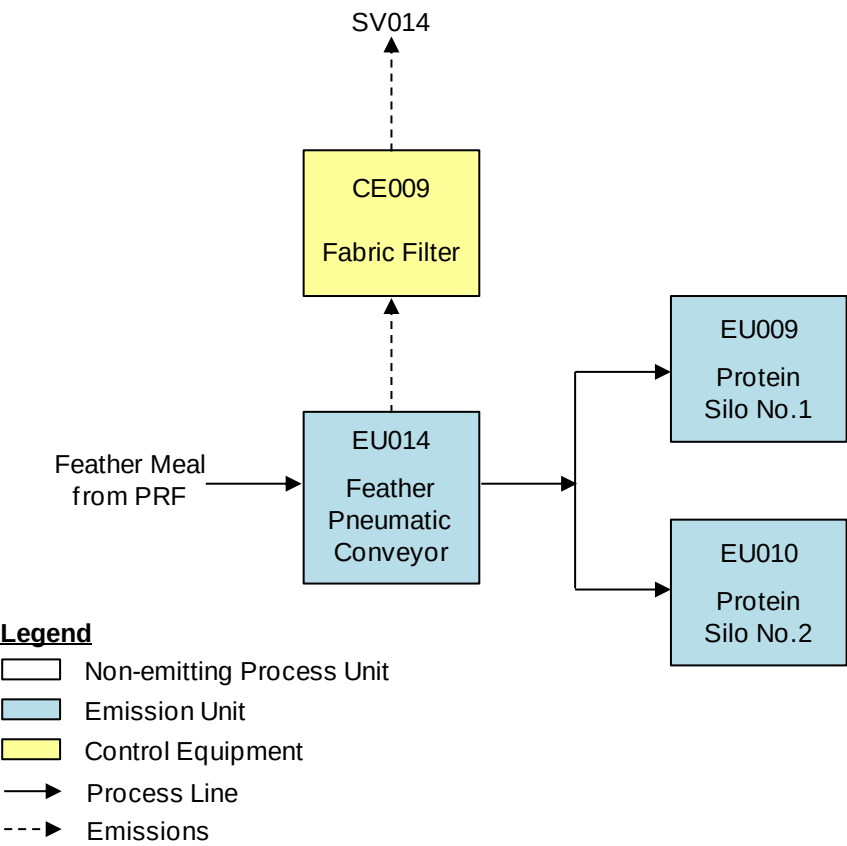
Protein Storage



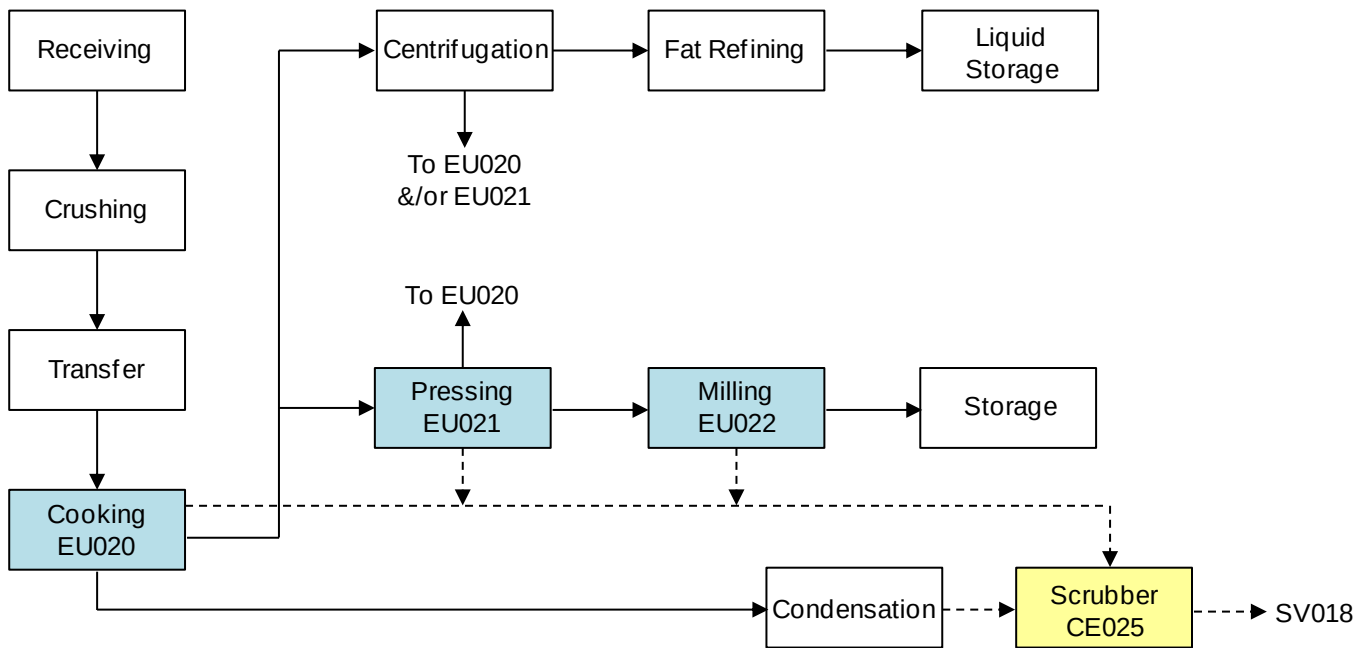
Protein Cooking & Milling



Feather Meal Conveying & Storage



PPF Line



Legend

- Non-emitting Process Unit
- Emission Unit
- Control Equipment
- Process Line
- Emissions



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-03-R

**Building and Structure Information and
Stack/Vent Diagram for Title V Reissuance
Air Quality Permit Program**

Doc Type: Permit Application

Instructions on Page 2

- 1) AQ Facility ID No. (first 8 digits of permit number): 03700070
- 2) Facility Name: Sanimax USA Inc.

To complete this form, you will need the colored sheet(s) labeled *Facility Description: Buildings (BG)*.

- 3) Review the information on the colored sheet(s) labeled "Facility Description: Buildings (BG)." Is the information on the form complete and accurate (i.e., are all the buildings comprising your facility identified correctly and completely on the form, and are all the buildings on the form still in existence at the facility)?
- ☐ Yes – The "Facility Description: Buildings (BG)" form is complete and accurate. No changes are necessary. Go to Question 7. Return this form and the colored sheet(s) labeled "Facility Description: Buildings (BG)" with your application.
- ☒ No – Go to Question 4.
- 4) Are there changes to be made that are administrative in nature (e.g., typographical errors, description changes)?
- ☐ Yes – Using a red pen, make those changes on the colored sheet. Go to Question 5.
- ☒ No – Go to Question 5.
- 5) Are there buildings listed that are no longer in existence?
- ☐ Yes – Using a red pen, draw a line through those listings. Go to Question 6.
- ☒ No – Go to Question 6.
- 6) Are there buildings that are not listed?
- ☒ Yes. Complete one line on the following table for each building not already listed on the colored sheet(s). Return this form and the colored sheet(s) with your application.
- ☐ No – Done with this form. Return this form and the colored sheets labeled "Facility Description: Buildings (BG)" with your application.

a) Bldg ID No.	b) Length (ft.)	c) Width (ft.)	d) Roof Height From Ground (ft.)	e) Description / Comments
BD001	85	104	37.0	Protein Recovery Facility
BD002-1	107.0	135.0	37.0	Receiving Building - Tier 1
BD002-2	81.0	100.0	99.0	Receiving Building - Tier 2
BD003-1	101.0	155.0	30.0	Process Building - Tier 1
BD003-2	69.0	73.0	74.0	Process Building - Tier 2
BD003-3	37.0	33	72.0	Process Building - Tier 3
BD004-1	187.0	102	30.0	Main Building - Tier 1
BD004-2	24.0	31.0	74.0	Main Building - Tier 2



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-03-R

**Building and Structure Information and
Stack/Vent Diagram for Title V Reissuance**

Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 2

1) AQ Facility ID No. (first 8 digits of permit number): 03700070

2) Facility Name: Sanimax USA Inc.

To complete this form, you will need the colored sheet(s) labeled *Facility Description: Buildings (BG)*.

3) Review the information on the colored sheet(s) labeled "Facility Description: Buildings (BG)." Is the information on the form complete and accurate (i.e., are all the buildings comprising your facility identified correctly and completely on the form, and are all the buildings on the form still in existence at the facility)?

☐ Yes – The "Facility Description: Buildings (BG)" form is complete and accurate. No changes are necessary. Go to Question 7. Return this form and the colored sheet(s) labeled "Facility Description: Buildings (BG)" with your application.

☒ No – Go to Question 4.

4) Are there changes to be made that are administrative in nature (e.g., typographical errors, description changes)?

☐ Yes – Using a red pen, make those changes on the colored sheet. Go to Question 5.

☒ No – Go to Question 5.

5) Are there buildings listed that are no longer in existence?

☐ Yes – Using a red pen, draw a line through those listings. Go to Question 6.

☒ No – Go to Question 6.

6) Are there buildings that are not listed?

☒ Yes. Complete one line on the following table for each building not already listed on the colored sheet(s). Return this form and the colored sheet(s) with your application.

☐ No – Done with this form. Return this form and the colored sheets labeled "Facility Description: Buildings (BG)" with your application.

a)	b)	c)	d)	e)
Bldg ID No.	Length (ft.)	Width (ft.)	Roof Height From Ground (ft.)	Description / Comments
BD005	106	58	14	Offices
BD006-1	163.0	19.0	23.0	Bin Structure - Tier 1
BD006-2	102.0	19.0	97.0	Bin Structure - Tier 2
BD007	352.0	95.0	16.0	South Building No. 1
BD008	74.0	60	32.0	South Building No. 2
BD009	100.0	100.0	40.0	PPF Building

7) Stack/Vent Diagram: (attach separate sheets)

FACILITY DESCRIPTION: BUILDINGS (BG)

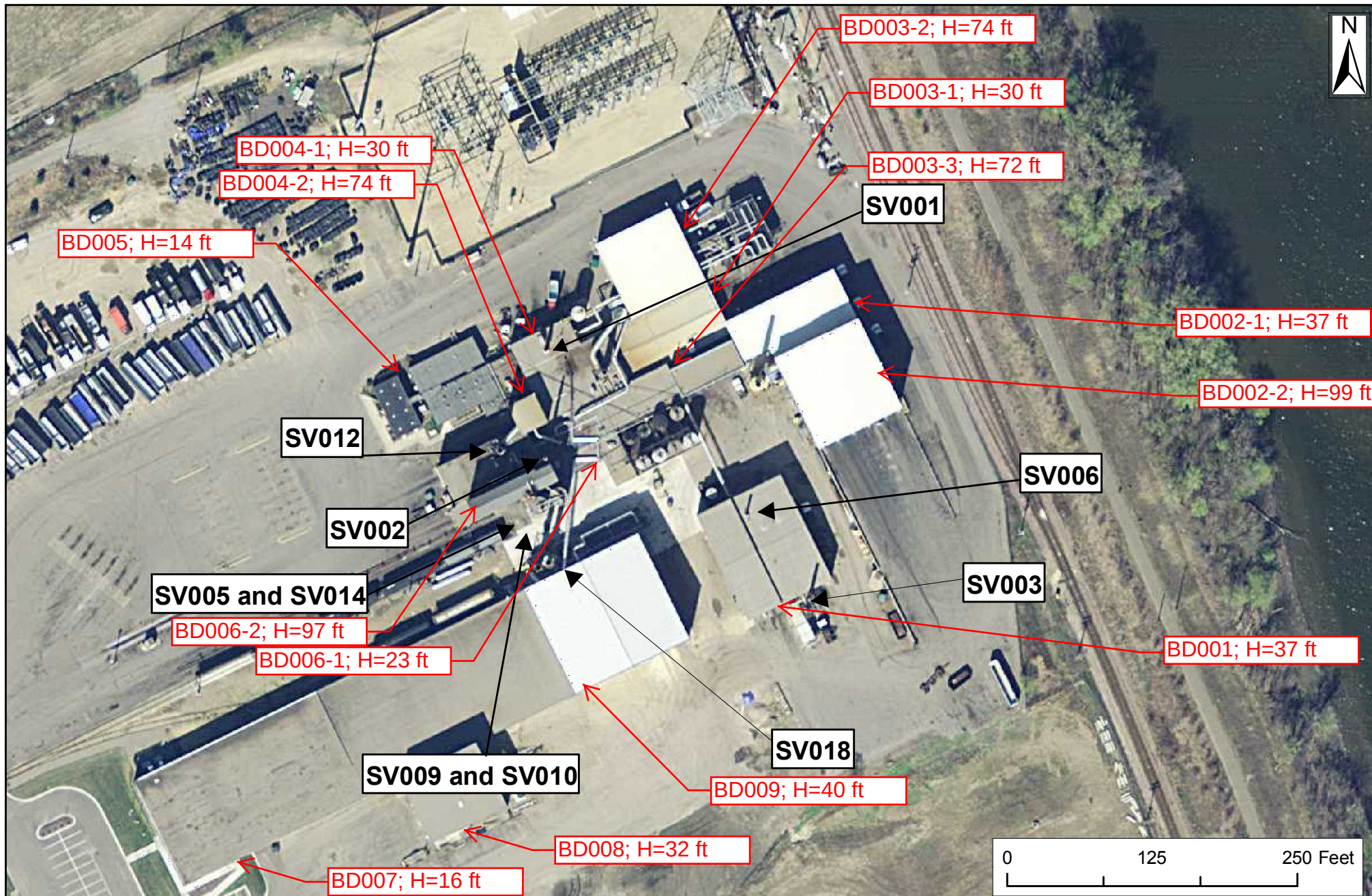
Show: Active Records Only

Action:

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

ID No.	Added By (Action)	Retired By (Action)	Operator ID for Item	Length (feet)	Width (feet)	Roof Height from Ground (feet)	Description/Comment	Building Status
--------	-------------------------	---------------------------	----------------------------	------------------	-----------------	---	---------------------	--------------------



3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110
PHONE: (651) 490-2000
FAX: (888) 908-8166
TF: (800) 325-2055
www.sehinc.com

Project: NACME 123033
Print Date: 1/10/2013

Map by: RB/bpt
Projection: UTM NAD83
Source: LMIC, USGS

Current Stack Locations
Sanimax USA Inc
Saint Paul, MN

Figure
1



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-04-R

**Facility Description: Stack/Vent (SV) Supplemental
Information for Title V Reissuance**

Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 3

- 1) AQ Facility ID No. (first 8 digits of permit number): 03700070
- 2) Facility Name: Sanimax USA Inc.

To complete this form, you will need the colored sheet(s) labeled *Facility Description: Stack/Vents (SV)*.

- 3) Review the information on the colored sheet(s) labeled "Facility Description: Stack Vents (SV)." Is the information on the form complete and accurate (i.e., is everything listed still in use, and is every stack/vent in use listed)? If there are blank fields (e.g., missing stack parameters) for any listed stack or vent, answer "no" to this question and fill in the missing information as directed in Question 4.
- ☒ Yes – The "Facility Description: Stack/Vents (SV)" form is complete and accurate. No changes are necessary. Done with this form. Return this page with your application.
- ☐ No – Go to Question 4.
- 4) Are there changes to be made that are administrative in nature (e.g., filling in missing information [blank fields] for existing equipment, typographical errors, incorrect air flows, other errors)? **[Note:** This does not include replacing listed stacks with new stacks.]
- ☐ Yes – Using a red pen, make changes and fill in all missing information on the colored sheet. Go to Question 5.
- ☐ No – Go to Question 5.
- 5) Are there stacks or vents listed that are no longer in use and have been permanently disabled?
- ☐ Yes – Using a red pen, draw a line on the colored sheet through the stack/vent that has been permanently disabled, and indicate the date it was disabled. Go to Question 6.
- ☐ No – Go to Question 6.
- 6) Are there stacks or vents in use that are not listed (either additional, or stacks that replaced something you crossed out for Question 5)?
- ☐ Yes – Complete one line of the table on the next page for each stack/vent that is not currently listed on the colored sheet. Return this form (pages 1 and 2) and the colored sheet(s) labeled "Facility Description: Stack/Vents (SV)" with your application.
- ☒ No – Done with this form. Return this page and the colored sheet(s) labeled "Facility Description: Stack/Vents (SV)" with your application.



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

8 January, 2013 07:00

FACILITY DESCRIPTION: STACK/VENTS (SV)

Show: Active Records Only

Action:

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

ID No.	Stack/ Vent Status	Added By (Action)	Retired By (Action)	Operator ID for Item	Operators Description	Height of Opening From Ground (feet)	Inside Dimensions		Design Flow Rate at Top (ACFM)	Exit Gas Temperature at Top (°F)	Flow Rate/ Temperature Information Source	Discharge Direction
							Diameter or Length (feet)	Width (feet)				
1	SV 001	Active	PER 006		Boiler No. 1	70	3.00		46000 20,120	560	Estimate	Up, No Cap
2	SV 002	Active	PER 006		Ring/Blood Dryer	100	2.70		12000	120	Estimate	Up, No Cap
3	SV 003	Active	PER 006		Protein Recovery Facility	75	3.5		33000	79	Estimate	Up, No Cap
4	SV 005	Active	PER 006		Blood Pneumatic Conveying System	7.08	0.33		240	70	Estimate	Up, No Cap H
5	SV 006	Active	PER 001		Boiler No. 2	50	2.50		16000	400	Estimate	Up, No Cap
6	SV 007	Active	PER 004	REMOVED	Old Building Emissions (Blood & Process Rooms, Warehouse)	30.0	5.50		75000	80	Test	Up, No Cap
7	SV 009	Active	PER 001		Protein Silo No. 1	10	0.30		566	100	Estimate	Up, No Cap
8	SV 010	Active	PER 001		Protein Silo No. 2	10	0.30		566	100	Estimate	Up, No Cap
9	SV 011	Removed	PER 006		Continuous Milling System	6	1.0	1.0	4000	120	Estimate	Up, No Cap
10	SV 012	Active	PER 006		Continuous Cookers/Milling System	100	5.2		75000	71	Test	Up, No Cap
11	SV 014	Active	PER 006		Feather Pneumatic Conveying System	11.25	0.4		240	70	Estimate	Up, No Cap H
12	SV 015	Removed	PER 004		Boiler No. 3							
13	SV 016	Removed	PER 004		Continuous Cooker No. 3 & Crax Coolers Nos. 1 & 2							
14	SV 017	Removed	PER 004		Continuous Milling System No. 2							
15	SV 018	Active	PER 006		PPF Scrubber	100	4		65000	90	Estimate	Up, No Cap
16	SV 019	Active	PER 006	NOT BUILT	PPF Scrubber	100	3		65000	90	Estimate	Up, No Cap



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-05A-R

**Facility Description: Control Equipment (CE)
Supplemental Information for Title V Reissuance
Air Quality Permit Program**

Doc Type: Permit Application

Instructions on Page 3

1a) AQ Facility ID No.: 03700070

1b) AQ File No. 578

2) Facility Name: Sanimax USA Inc.

To complete the rest of this form, you will need the colored sheet(s) labeled *Facility Description: Control Equipment (CE)*.

- 3)** Review the information on the colored sheet(s) labeled "Facility Description: Control Equipment (CE)." Is the information on the form complete and accurate (i.e., is everything listed still in use, and is every piece of equipment in use listed)? If there are blank fields (e.g., missing manufacturers or model numbers, missing efficiencies, etc.) for any listed control device, answer "no" to this question and fill in the missing information as directed in Question 4.

- ☐ Yes – The "Facility Description: Control Equipment (CE)" form is complete and accurate. No changes are necessary. Done with this form. Return this page with your application.
- ☒ No – Go to Question 4.

- 4)** Are there changes to be made that are administrative in nature (e.g., filling in missing information [blank fields] for existing equipment, typographical errors, incorrect model numbers, other errors)? [**Note:** This does not include replacing listed equipment with new equipment.]

- ☒ Yes – Using a red pen, make changes and fill in all missing information on the colored sheet. Go to Question 5.
- ☐ No – Go to Question 5.

- 5)** Is there equipment listed that is no longer in use at the facility?

- ☐ Yes – Using a red pen, draw a line on the colored sheet through the equipment that is no longer in use. Indicate the date that it was removed. Go to Question 6.
- ☒ No – Go to Question 6.

- 6)** Is there control equipment in use that is not listed (either additional equipment, or equipment that replaced something you crossed out for Question 5)?

- ☐ Yes – Complete one line of the table on the next page for each piece of control equipment that is not currently listed on the colored sheet. Return this form (pages 1 and 2) and the colored sheet(s) labeled "Facility Description: Control Equipment (CE)" with your application.
- ☒ No – Done with this form. Return this page and the colored sheet(s) labeled "Facility Description: Control Equipment (CE)" with your application.

FACILITY DESCRIPTION: CONTROL EQUIPMENT (CE)

Show: Active Records Only

Action:

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

ID No.	Control Equip. Status	Added By (Action)	Retired By (Action)	Operator ID for Item	Control Equip. Type	Control Equipment Description	Manufacturer	Model	Pollutants Controlled	Capture Efficiency (%)	Destruction/Collection Efficiency (%)	Afterburner Combustion Parameters
1	CE 001	Active	PER 006		099	Blood Process Venturi Scrubber	SCP Control	PT75K	PM2.5 PM10 PM	100 100 100	90 90 90	
2	CE 002	Retired	PER 005		050	Packed-Gas Adsorption Column	SCP Control	PT75K				
3	CE 003	Active	PER 006		099	PRF Venturi Scrubber	SCP Control	PT40K	PM2.5 PM10 PM	100 100 100	90 90 90	
4	CE 004	Retired	PER 005		050	Packed-Gas Adsorption Column	SCP Control	PT40K				
5	CE 005	Retired	PER 001		050	Packed-Gas Adsorption Column						
6	CE 006	Active	PER 006		099	BS Bin C & E Fabric Filter (LT)	MAC	72AVR7	PM2.5 PM10 PM	100 100 100	99 99 99	
7	CE 007	Retired	PER 005		099	Old Building Scrubber	SCP Control	PT12K	PM	100	90	
8	CE 008	Retired	PER 005		050	Packed-Gas Adsorption Column	SCP Control	PT12K				
9	CE 009	Active	PER 006		099	Feather System Fab. Filter (LT)	MAC	72AVR14	PM2.5 PM10 PM	100 100 100	99 99 99	
10	CE 010	Active	PER 006		099	Protein Silo #1 Fabric Filter (LT)	MAC	72AVR14	PM2.5 PM10 PM	100 100 100	99 99 99	
11	CE 011	Active	PER 006		099	Protein Silo #2 Fabric Filter (LT)	MAC	72AVR14	PM2.5 PM10 PM	100 100 100	99 99 99	
12	CE 012	Active	PER 006		099	Cookers Venturi Scrubber	SCP Control	PT18K	PM2.5 PM10 PM	100 100 100	90 90 90	
13	CE 013	Retired	PER 005		050	Packed-Gas Adsorption Column	SCP Control	PT18K				
14	CE 014	Active	PER 006		099	BS Bin 9 & 10 Fabric Filter (LT)	MAC	72FRB7	PM2.5 PM10 PM	100 100 100	99 99 99	
15	CE 015	Removed	PER 003		099	Milling System Fabric Filter (LT)	MAC	96AVR39	PM	100	99	
16	CE 016	Active	PER 006		099	Particulate Capture Unit	Scott Equipment	PCU 3030	PM2.5 PM10 PM	100 100 100	90 90 90	
17	CE 017	Removed	PER 004		099	Continuous Cooker Scrubber	TBD	TBD				
18	CE 018	Removed	PER 004		050	Packed-Gas Adsorption Column	TBD	TBD				
19	CE 019	Removed	PER 004		001	Wet Scrubber - High Efficiency	TBD	TBD				



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

8 January, 2013 07:00

FACILITY DESCRIPTION: CONTROL EQUIPMENT (CE)

Show: Active Records Only

Action:

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

ID No.	Control Equip. Status	Added By (Action)	Retired By (Action)	Operator ID for Item	Control Equip. Type	Control Equipment Description	Manufacturer	Model	Pollutants Controlled	Capture Efficiency (%)	Destruction/Collection Efficiency (%)	Afterburner Combustion Parameters
20 CE 020	Removed	PER 004			099	Particulate Capture Unit	TBD	TBD				
21 CE 021	Removed	PER 004			001	Wet Scrubber - High Efficiency	SCP Control Inc	TBD				
22 CE 022	Removed	PER 004			099	Particulate Capture Unit	TBD	TBD				
23 CE 023	Removed	PER 004			099	Particulate Capture Unit	TBD	TBD				
24 CE 024	Removed	PER 004			099	SO2 Control Scrubber	TBD	TBD				
25 CE 025	Active	PER 006			099	PPF Venturi Scrubber	TBD ANALMAX	TBD RA-4154	PM2.5 PM10 PM1 VOC	100 100 100 100	90 90 90 90	



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-05B-R

Facility Description: Emission Unit (EU)
Supplemental Information for Title V Reissuance
Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 3

1a) AQ Facility ID No.: 03700070 1b) AQ File No.: 578
2) Facility Name: Sanimax USA Inc.

To complete the rest of this form, you will need the colored sheet(s) labeled *Facility Description: Emission Unit (EU)*.

- 3) Review the information on the colored sheet(s) labeled "Facility Description: Emission Unit (EU)." Is the information on the form complete and accurate (i.e., is everything listed still in use, and is every piece of equipment in use listed)? If there are blank fields (e.g., missing manufacturers or model numbers, missing dates, etc.) for any listed emission unit, answer "no" to this question and fill in the missing information as directed in Question 4.
- ☐ Yes – The "Facility Description: Emission Unit (EU)" form is complete and accurate. No changes are necessary. Done with this form. Return this page with your application.
- ☒ No – Go to Question 4.
- 4) Are there changes to be made that are administrative in nature (e.g., filling in missing information [blank fields] for existing equipment, typographical errors, incorrect model numbers, other errors)? **[Notes:** This includes filling in all missing information, including dates and capacities; see the attached instructions for including the material and units for the maximum design capacity. This item **does not include** replacing listed equipment with new equipment. This **may include** checking the "insignificant activity" box if the equipment or operation has always been an insignificant activity and was erroneously included as an emission unit.]
- ☒ Yes – Using a red pen, make changes and fill in all missing information on the colored sheets. Go to Question 5.
- ☐ No – Go to Question 5.
- 5) Is there equipment listed that has been permanently disabled or removed from the facility?
- ☐ Yes – Using a red pen, draw a line on the colored sheet through the equipment that is no longer in use. Indicate the date that it was removed or disabled. Go to Question 6.
- ☒ No – Go to Question 6.
- 6) Are there equipment or processes in use that are not listed (either additional equipment, or equipment that replaced something you crossed out for Question 5)?
- ☐ Yes – Complete one line of the table on the next page for each piece of equipment or process that is not currently listed on the colored sheet. Return this form (pages 1 and 2) and the colored sheet(s) labeled "Facility Description: Emission Unit (EU)" with your application.
- ☒ No – Done with this form. Return this page and the colored sheet(s) labeled "Facility Description: Emission Unit (EU)" with your application.



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

8 January, 2013 07:00

FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active Records Only

Action:

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s)	Control Equip. ID No(s)	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity	Materials	Units n	Max Fuel Input (mil Btu)
1 EU 001	Active	PER 001		☐		SV 001		Boiler No. 1	Nebraska	NS-C-53	2077					51.0
2 EU 002	Active	PER 001		☐		SV 002	CE 001	Ring/Blood Dryer	DUPPS	2000B	2077	2000		Lb	Hr	
3 EU 003	Active	PER 001		☐		SV 003	CE 003	Protein Recovery Facility (PRF)	Alloy Hard Facing	5X15	2077	2000		Lb	Hr	
4 EU 004	Retired	PER 005		☐				Blood, Process room, Warehouse			2077					
5 EU 005	Active	PER 001		☐		SV 005	CE 006 CE 014	Blood Pneumatic Conveying System	MAC	NA	2077	2000		Lb	Hr	
6 EU 006	Active	PER 001		☐		SV 006		Boiler No. 2	Johnston	PFTA-400-4	2077					17.58
7 EU 007	Retired	PER 001		☒				Old Building Emissions (Blood & Process Rooms, Warehouse)	NA	NA	2077					
8 EU 008	Retired	PER 005		☐				Storage Silo			2077					
9 EU 009	Active	PER 001		☐		SV 009	CE 010	Protein Silo No. 1	Peabody Tech Tank	Q95-3140-A	2077	20,000		Lb	Hr	
10 EU 010	Active	PER 001		☐		SV 010	CE 011	Protein Silo No. 2	Peabody Tech Tank	Q95-3140-A	2077	20,000		Lb	Hr	
11 EU 011	Active	PER 006		☐		SV 012 (M)	CE 016	Continuous Milling System	Bliss	IER-4424-TF	2077	20,000		Lb	Hr	
12 EU 012	Active	PER 006		☐		SV 012 (M)	CE 012	Continuous Cooker No. 1	DUPPS	200U	2077	25,000		Lb	Hr	
13 EU 013	Active	PER 006		☐		SV 012 (M)	CE 012	Continuous Cooker No. 2	DUPPS	200U	2077	25,000		Lb	Hr	
14 EU 014	Active	PER 006		☐		SV 014 (M)	CE 009	Feather Pneumatic Conveying System	MAC	NA	2077	2500		Lb	Hr	
15 EU 015	Removed	PER 004		☐		SV 015 (M)		Boiler No. 3	Nebraska	S-2421	2077					98.3
16 EU 016	Removed	PER 004		☐		SV 016 (M)	CE 018 CE 019	Continuous Cooker No. 3	TBD	TBD	2077	70000		Lb	Hr	
17 EU 017	Removed	PER 004		☐		SV 017 (M)		Continuous Milling System No. 2	TBD	TBD	2077	20000		Lb	Hr	
18 EU 018	Removed	PER 004		☐		SV 016 (M)	CE 022	Crax Cooler No. 1	TBD	TBD	2077	20000		Lb	Hr	
19 EU 019	Removed	PER 004		☐		SV 016 (M)	CE 023	Crax Cooler No. 2	TBD	TBD	2077	20000		Lb	Hr	
20 EU 020	Active	PER 006		☐		SV 018 (M)	CE 025	PPF Cooking	TBD Dupps	TBD 3204	2077	37893		Lb	Hr	
21 EU 021	Active	PER 006		☐		SV 018 (M)	CE 025	PPF Pressing	TBD Dupps	TBD 10-4	2077	10717		Lb	Hr	
22 EU 022	Active	PER 006		☐		SV 018 (M)	CE 025	PPF Milling	TBD Bliss	TBD 3824	2077	9860		Lb	Hr	

FACILITY DESCRIPTION: EMISSION UNIT (EU)

ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/Space Heat	Bottleneck	Elevator Type
1 EU 001	Active	PER 001	01/01/1978	12/31/1979					
2 EU 002	Active	PER 001	01/01/1982	12/31/1991					
3 EU 003	Active	PER 001	01/01/1994	12/31/1994					
4 EU 004	Retired	PER 005							
5 EU 005	Active	PER 001	01/01/1991	12/31/1991					
6 EU 006	Active	PER 001							
7 EU 007	Retired	PER 001							
8 EU 008	Retired	PER 005			01/01/1995				
9 EU 009	Active	PER 001	01/01/1994	12/31/1994					
10 EU 010	Active	PER 001	01/01/1994	12/31/1994					
11 EU 011	Active	PER 006	01/01/1999	11/15/2002					
12 EU 012	Active	PER 006	01/01/1999	11/15/2002					
13 EU 013	Active	PER 006	01/01/1999	11/15/2002					
14 EU 014	Active	PER 006	01/01/1991	12/31/1991					
15 EU 015	Removed	PER 004	01/01/1975	01/01/2004					
16 EU 016	Removed	PER 004	11/01/2003	01/01/2004					
17 EU 017	Removed	PER 004	11/01/2003	01/01/2004					
18 EU 018	Removed	PER 004	11/01/2003	01/01/2004					
19 EU 019	Removed	PER 004	11/01/2003						
20 EU 020	Active	PER 006	01/01/2011	10/01/2011					
21 EU 021	Active	PER 006	01/01/2011	10/01/2011					
22 EU 022	Active	PER 006	01/01/2011	10/01/2011					



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-05C-R

**Facility Description: Storage Tanks (TK)
Supplemental Information for Title V Reissuance
Air Quality Permit Program**

Doc Type: Permit Application

Instructions on Page 3

1a) AQ Facility ID No.: 03700070 **1b)** AQ File No.: 578
2) Facility Name: Sanimax USA Inc.

To complete this form, you will need the colored sheet(s) labeled *Facility Description: Storage Tanks (TK)*.

- 3)** Review the information on the colored sheet(s) labeled "Facility Description: Storage Tanks (TK)." Is the information on the form complete and accurate (i.e., is everything listed still in use, and is every piece of equipment in use listed)? If there are blank fields (e.g., missing tank dimensions, missing contents, etc.) for any listed tank, answer "no" to this question and fill in the missing information as directed in Question 4.

- ☒ Yes – The "Facility Description: Storage Tanks (TK)" form is complete and accurate. No changes are necessary. Done with this form. Return this page with your application.
- ☐ No – Go to Question 4.

- 4)** Are there changes to be made that are administrative in nature (e.g., filling in missing information [blank fields] for existing equipment, typographical errors, incorrect construction type, other errors)?

[Note: This does not include replacing listed tanks with new equipment. This **may include** checking the "insignificant activity" box if the tank has always been an insignificant activity and was erroneously included on this list.]

- ☐ Yes – Using a red pen, make changes and fill in all missing information on the colored sheet. Go to Question 5.
- ☐ No – Go to Question 5.

- 5)** Are there tanks listed that are no longer in use or have been removed from the facility?

- ☐ Yes – Using a red pen, draw a line on the colored sheet through the equipment that is no longer in use. Indicate the date that it was removed. Go to Question 6.
- ☐ No – Go to Question 6.

- 6)** Are there tanks in use that are not listed (either additional tanks, or tanks that replaced something you crossed out for Question 5)?

- ☐ Yes – Complete one line of the table on the next page for each tank that is not currently listed on the colored sheet. Return this form (pages 1 and 2) and the colored sheet(s) labeled "Facility Description: Storage Tanks (TK)" with your application.
- ☐ No – Done with this form. Return this page and the colored sheet(s) labeled "Facility Description: Storage Tanks (TK)" with your application.

FACILITY DESCRIPTION: STORAGE TANKS (TK)

Show: Active Records Only

Action:

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

ID No.	Tank Status	Added By (Action)	Retired By (Action)	Insigni-icant Activity	Operator ID for Item	Control Equip. ID No(s).	Product Stored	Interior Height (ft.)	Interior Diameter (ft.)	Capacity (1000 gal)	Construction Type
--------	-------------	-------------------	---------------------	------------------------	----------------------	--------------------------	----------------	-----------------------	-------------------------	---------------------	-------------------

X - NO SIGNIFICANT TANKS



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-05D-R

**Facility Description: Fugitive Sources (FS)
Supplemental Information for Title V Reissuance**

Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 2

1a) AQ Facility ID No.: 03700070 **1b)** AQ File No.: 578
2) Facility Name: Sanimax USA Inc.

To complete this form, you will need the colored sheet(s) labeled *Facility Description: Fugitive Sources (FS)*.

- 3)** Review the information on the colored sheet(s) labeled "Facility Description: Fugitive Sources (FS)." Is the information on the form complete and accurate (i.e., is everything listed still in operation, and are all existing fugitive sources listed)? If there are blank fields (e.g., missing pollutants, missing dates, etc.) for any listed fugitive source, answer "no" to this question and fill in the missing information as directed in Question 4.
- ☒ Yes – The "Facility Description: Fugitive Sources (FS)" form is complete and accurate. No changes are necessary. Done with this form. Return this page with your application.
- ☐ No – Go to Question 4.
- 4)** Are there changes to be made that are administrative in nature (e.g., filling in missing information [blank fields] for existing equipment, typographical errors, other errors)? **[Note:** This does not include replacing listed processes/equipment with new processes/equipment. This **may include** checking the "insignificant activity" box if the source has always been an insignificant activity and was erroneously included on this list.]
- ☐ Yes – Using a red pen, make changes and fill in all missing information on the colored sheet. Go to Question 5.
- ☐ No – Go to Question 5.
- 5)** Are there fugitive sources listed that are no longer in use or located at the facility?
- ☐ Yes – Using a red pen, draw a line on the colored sheet through those item(s). Go to Question 6.
- ☐ No – Go to Question 6.
- 6)** Are there processes or equipment that are not listed (either additional, or replacing something you crossed out for Question 5)?
- ☐ Yes – Complete one line of the table below for each fugitive source that is not currently listed on the colored sheet. Return this form (pages 1 and 2) and the colored sheet(s) labeled "Facility Description: Fugitive Sources (FS)" with your application.
- ☐ No – Done with this form. Return this page and the colored sheet(s) labeled "Facility Description: Fugitive Sources (FS)" with your application.

a) Fugitive Source ID No.	b) Pollutant Emitted (particulate matter (PM) or VOC)	c) Control Equip ID No.	d) Description of Fugitive Emission Source



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
320 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

8 January, 2013 07:01

FACILITY DESCRIPTION: FUGITIVE SOURCES (FS)

Show: Active Records Only

Action:

AQO Facility ID: 037000070

Facility Name: Sanimax USA Inc

ID No.	Fugitive Source Status	Added By (Action)	Retired By (Action)	Insuffi- cient Activity	Operator ID for Item	Pollutant(s) Emitted	Control Equip. ID No(s)	Fugitive Source Description	Year Installed	Year Removed
--------	------------------------	-------------------	---------------------	-------------------------------	----------------------	----------------------	-------------------------	-----------------------------	----------------	--------------



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-05E-R

**Facility Description: Groups (GP) Supplemental
Information for Title V Reissuance**

Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 2

- 1) AQ Facility ID No. (first 8 digits of permit number): 03700070
- 2) Facility Name: 578

To complete this form, you will need the colored sheet(s) labeled *Facility Description: Groups (GP)*.

- 3) Review the information on the colored sheet(s) labeled "Facility Description: Groups (GP)." A "group" is most often used when a limit is applied to several items (such as a fuel usage limit that applies to two or more boilers combined), or when several items are individually subject to identical requirements. If there is no information listed below the column headings, that means that the MPCA has not defined any groups for your facility. If nothing is listed and you do not wish to define any groups, answer **Yes** to this question. If nothing is listed and you wish to define a group, skip to Question 6 below.

If there is information listed below the column headings, is the information on the form complete and accurate (i.e., is everything listed under Group Items still in use, or is it still appropriate that all of the listed items be included in a group, or is there new equipment that should be added to the group)?

☒ Yes – The "Facility Description: Groups (GP)" form is complete and accurate. No changes are necessary. Done with this form. Return this page with your application.

☐ No – Go to Question 4.

- 4) Are there items listed under Group Items that are no longer at the facility or are no longer appropriate to be included in the group?

☐ Yes – Using a red pen, draw a line on the colored sheet through the items that should be eliminated. Go to Question 5.

☐ No – Go to Question 5.

- 5) Is there something that should be added to any of the Group Items (either additional items, or items that replaced something you crossed out for Question 4)?

☐ Yes – Using a red pen, write in the item numbers on the colored sheet under the Group Items column for the appropriate group. Use the appropriate nomenclature (EU-XXX, CE-XXX, TK-XXX, FS-XXX). Go to Question 6.

☐ No – Go to Question 6.

- 6) Do you wish to define a new group?

☐ Yes – Complete one line of the table below for each new group you wish to define. Return this form (pages 1 and 2) and the colored sheet(s) labeled "Facility Description: Groups (GP)" with your application.

☒ No – Done with this form. Return this page and the colored sheet(s) labeled "Facility Description: Groups (GP)" with your application.

a)	b)	c)
Group ID.	Title or Description of Group	Group Items

FACILITY DESCRIPTION: GROUPS (GP)

Show: Active Records Only

Action:

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

ID No.	Group Status	Added By (Action)	Retired By (Action)	Includes in EI	Operator ID for Item	Group Description	Group Items
1	GP 001 Active	PER 001		☒		Combustion Equipment Subject to Facility-Wide SO2 Limit	EU 001, EU 002, EU 006
2	GP 001 Active	PER 002		☒		Combustion Equipment Subject to Facility-Wide SO2 Limit	EU 001, EU 002, EU 006
3	GP 002 Active	PER 004		☒		Continuous Milling System and Associated Control Equipment	CE 010, CE 010, EU 011, EU 011
4	GP 003 Active	PER 006		☒		Continuous Crockers and Control Equipment	CE 012, EU 011, EU 012, EU 013, SV 012
5	GP 004 Active	PER 001		☒		Bleed System (BS) Fabric Filters	CE 006, CE 014
6	GP 005 Active	PER 001		☒		Protein Silo Fabric Filters	CE 010, CE 011
7	GP 006 Active	PER 002		☒		Particulate Capture Units	



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-07-R

**Potential To Emit – Supplemental
Information for Title V Reissuance
Air Quality Permit Program**

Doc Type: Permit Application

Instructions on Page 3

1a) AQ Facility ID No.: 03700070

1b) AQ File No. 578

2) Facility Name: Sanimax USA Inc.

**To complete this form, you will need the colored sheet(s) labeled
Facility Description: Potential To Emit (by Item).**

- 3)** Review the information on the colored sheet(s) labeled "Facility Description: Potential-to-emit (by item)." Is the information on the form complete and accurate (i.e., the hourly and annual emissions from every emission unit, storage tank, fugitive source, and/or group are accounted for; the numbers that are listed are correct; if the facility emits particulate matter, emissions of total particulate matter (PM), particulate matter smaller than 10 microns (PM₁₀), particulate matter smaller than 2.5 microns (PM_{2.5}) are all included; hazardous air pollutant emissions are included for all permitted combustion sources; greenhouse gas (GHG) emissions are included, listed as individual GHGs and as carbon dioxide equivalents (CO₂e)).

☐ Yes – The "Facility Description: Potential-to-emit (by item)" form is complete and accurate. Include in your application a printout of all supporting calculations for the existing data on the form. This may involve re-creating the calculations. In addition to a printout of the calculations, please also submit spreadsheet used for the calculations in an editable electronic format (CD) with the application. If that is not possible, be prepared to email the editable calculation spreadsheet to Minnesota Pollution Control Agency (MPCA) staff upon request (indicate below how the calculations are or will be provided).

☐ A CD with the editable calculation spreadsheet is included in this application.

☐ An editable spreadsheet with all calculations will be emailed to MPCA upon request.

Done with this form. Return this page, the colored sheet(s) labeled "Facility Description: Potential-to-emit (by item)," and a printout of the spreadsheet documenting the emission calculations (in addition to the CD, if indicated above that a CD will be submitted) with your application.

☒ No – Go to Question 4.

- 4)** Are there changes to be made to the numbers that are listed? [**Note:** This means changes to existing potential to emit numbers only; this does not include adding the emissions from units that are not included on the form, or adding emissions of PM_{2.5} or GHG.]

☒ Yes – Using a red pen, make those changes on the colored sheet. Provide all supporting calculations for any edits you make, as described in Question 7. Go to Question 5.

☐ No – Go to Question 5.

- 5)** Are there emissions listed from equipment that is no longer at the facility?

☐ Yes – Using a red pen, draw a line on the colored sheet through those emissions. Go to Question 6.

☒ No – Go to Question 6.

- 6)** Are there emissions from equipment or processes that you added on Form GI-04-R, GI-05B-R, GI-05C-R, or GI-05D-R (either additional equipment, or equipment that replaced something you crossed out for Question 5), or do you need to add pollutants for equipment that is already listed on the form (this could be PM_{2.5}, or GHG, or any other pollutant that is emitted but does not appear on the Facility Description printout)?

☒ Yes – Complete one line of the table on the next page for the emissions from each piece of equipment or process that is not currently listed on the white sheet, or for which you have to add GHG or PM_{2.5} or other emissions to the list. Provide all supporting calculations for any edits you make, as described in Question 7. Go to Question 7.

☐ No – Go to Question 7.

- 7)** Return this form (pages 1 and 2) and the colored sheet(s) labeled "Facility Description: Potential-to-emit (by item)" with your application. Include with your application complete calculations for the entire facility, including all changes described above. Include a print-out of the calculations in the application package, and also provide the calculation spreadsheet in an editable electronic format; choosing one of the following options:

☐ A CD with the editable calculation spreadsheet is included in this application.

☒ An editable spreadsheet with all calculations will be emailed to MPCA upon request.

a)	b)	c) CAS#:	124-38-9		CAS#:		74-82-8			CAS#:		10024-97-2	
Emission Source Type	Emission Source ID No.	d) Pollutant Name:	CO2		Pollutant Name:		CH4			Pollutant Name:		N2O	
		e)			f)								
		Potential			Actual	Potential			Actual	Potential			Actual
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr
EU	001	8932	39121	39121		0.34	1.49	1.49		0.18	0.79	0.79	
EU	002	796.4	3488	3488		0.01	0.05	0.05		0.01	0.05	0.05	
EU	006	2800	12265	12265		0.04	0.17	0.17		0.04	0.17	0.17	

a)	b)	c) CAS#:			CAS#:				CAS#:				
Emission Source Type	Emission Source ID No.	d) Pollutant Name:	CO2e		Pollutant Name:				Pollutant Name:				
		e) Potential			f) Actual	Potential			Actual	Potential			Actual
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr
EU	001	8,995	39,397	39,397									
EU	002	800	3,504	3,504									
EU	006	2,813	12,320	12,320									

a)	b)	c) CAS#:			83-32-9		CAS#:		203-96-8		CAS#:		120-12-7			
Emission Source Type	Emission Source ID No.	d) Pollutant Name:			Acenaphthene		Pollutant Name:		Acenaphthylene		Pollutant Name:		Anthracene			
		e)			f)											
		Potential			Actual		Potential			Actual		Potential			Actual	
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr			
EU	001	8.45E-06	3.70E-05	3.70E-05		1.01E-07	4.44E-07	4.44E-07		4.89E-07	2.14E-06	2.14E-06				
EU	002	7.54E-07	3.30E-06	3.30E-06		9.04E-09	3.96E-08	3.96E-08		4.36E-08	1.91E-07	1.91E-07				
EU	006	2.65E-06	1.16E-05	1.16E-05		3.18E-08	1.39E-07	1.39E-07		1.53E-07	6.71E-07	6.71E-07				

a)	b)	c) CAS#:			56-55-3		CAS#:		71-43-2		CAS#:		50-32-8			
Emission Source Type	Emission Source ID No.	d) Pollutant Name:			Benz(a)anthracene		Pollutant Name:		Benzene		Pollutant Name:		Benzo(a)pyrene			
		e)			f)											
		Potential			Actual		Potential			Actual		Potential			Actual	
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr			
EU	001	1.61E-06	7.03E-06	7.03E-06		1.05E-04	4.60E-04	4.60E-04		6.00E-08	2.63E-07	2.63E-07				
EU	002	1.43E-07	6.27E-07	6.27E-07		1.03E-05	4.51E-05	4.51E-05		5.88E-09	2.58E-08	2.58E-08				
EU	006	5.04E-07	2.21E-06	2.21E-06		3.62E-05	1.59E-04	1.59E-04		2.07E-08	9.06E-08	9.06E-08				

a)	b)	c) CAS#:			205-99-2		CAS#:		191-24-2		CAS#:		207-08-9				
Emission Source Type	Emission Source ID No.	d) Pollutant Name:			Benzo(b)fluoranthene		Pollutant Name:		Benzo(g,h,i)perylene		Pollutant Name:		Benzo(k)fluoranthene				
		e)			f)												
		Potential			Actual		Potential			Actual		Potential			Actual		
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr
EU	001	5.93E-07	2.60E-06	2.60E-06		9.05E-07	3.96E-06	3.96E-06		5.93E-07	2.60E-06	2.60E-06					
EU	002	5.29E-08	2.32E-07	2.32E-07		8.07E-08	3.54E-07	3.54E-07		5.29E-08	2.32E-07	2.32E-07					
EU	006	1.86E-07	8.14E-07	8.14E-07		2.84E-07	1.24E-06	1.24E-06		1.86E-07	8.14E-07	8.14E-07					

a)	b)	c) CAS#:			218-01-9		CAS#:		53-70-3		CAS#:		25321-22-6			
Emission Source Type	Emission Source ID No.	d) Pollutant Name:			Chrysene		Pollutant Name:		Dibenzo(a,h)anthracene		Pollutant Name:		Dichlorobenzene			
		e)			f)											
		Potential			Actual		Potential			Actual		Potential			Actual	
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr			
EU	001	9.53E-07	4.18E-06	4.18E-06		6.00E-05	2.63E-04	2.63E-04		6.00E-05	2.63E-04	2.63E-04				
EU	002	8.50E-08	3.72E-07	3.72E-07		5.88E-06	2.58E-05	2.58E-05		5.88E-06	2.58E-05	2.58E-05				
EU	006	2.99E-07	1.31E-06	1.31E-06		2.07E-05	9.06E-05	9.06E-05		2.07E-05	9.06E-05	9.06E-05				

a)	b)	c) CAS#:	57-97-6			CAS#:		100-41-4		CAS#:		206-44-0	
Emission Source Type	Emission Source ID No.	d) Pollutant Name:	7,12-Dimethylbenz(a)anthracene			Pollutant Name:		Ethylbenzene		Pollutant Name:		Fluoranthene	
		e)			f)								
		Potential			Actual	Potential			Actual	Potential			Actual
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr
EU	001	8.00E-07	3.50E-06	3.50E-06		2.55E-05	1.12E-04	1.12E-04		1.94E-06	8.49E-06	8.49E-06	
EU	002	7.84E-08	3.44E-07	3.44E-07		2.27E-06	9.95E-06	9.95E-06		1.73E-07	7.57E-07	7.57E-07	
EU	006	2.76E-07	1.21E-06	1.21E-06		7.99E-06	3.50E-05	3.50E-05		6.08E-07	2.66E-06	2.66E-06	

a)	b)	c) CAS#:	86-73-7			CAS#:		50-00-0		CAS#:		110-54-3	
Emission Source Type	Emission Source ID No.	d) Pollutant Name:	Fluorene			Pollutant Name:		Formaldehyde		Pollutant Name:		Hexane	
		e)			f)								
		Potential			Actual	Potential			Actual	Potential			Actual
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr
EU	001	1.79E-06	7.84E-06	7.84E-06		1.32E-02	5.79E-02	5.79E-02		9.00E-02	3.94E-01	3.94E-01	
EU	002	1.60E-07	6.99E-07	6.99E-07		1.18E-03	5.16E-03	5.16E-03		8.82E-03	3.86E-02	3.86E-02	
EU	006	5.61E-07	2.46E-06	2.46E-06		4.14E-03	1.81E-02	1.81E-02		3.10E-02	1.36E-01	1.36E-01	

a)	b)	c) CAS#:	193-39-5			CAS#:	91-57-6			CAS#:	56-49-5		
Emission Source Type	Emission Source ID No.	d) Pollutant Name:	Indendo(1,2,3-cd)pyrene			Pollutant Name:	2-Methylnaphthalene			Pollutant Name:	3-Methylchloranthrene		
		e)			f)								
		Potential			Actual	Potential			Actual	Potential			Actual
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr
EU	001	8.57E-07	3.75E-06	3.75E-06		1.20E-06	5.26E-06	5.26E-06		9.00E-08	3.94E-07	3.94E-07	
EU	002	7.64E-08	3.35E-07	3.35E-07		1.18E-07	5.15E-07	5.15E-07		8.82E-09	3.86E-08	3.86E-08	
EU	006	2.69E-07	1.18E-06	1.18E-06		4.14E-07	1.81E-06	1.81E-06		3.10E-08	1.36E-07	1.36E-07	

a)	b)	c) CAS#:			91-20-3		CAS#:		85-01-8		CAS#:		7723-14-0			
Emission Source Type	Emission Source ID No.	d) Pollutant Name:			Naphthalene		Pollutant Name:		Phenanthrene		Pollutant Name:		Phosphorus			
		e)			f)											
		Potential			Actual		Potential			Actual		Potential			Actual	
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr			
EU	001	4.53E-04	1.98E-03	1.98E-03		4.21E-06	1.84E-05	1.84E-05		3.22E-03	1.41E-02	1.41E-02				
EU	002	4.04E-05	1.77E-04	1.77E-04		3.75E-07	1.64E-06	1.64E-06		--	--	--				
EU	006	1.42E-04	6.21E-04	6.21E-04		1.32E-06	5.77E-06	5.77E-06		--	--	--				

a)	b)	c) CAS#:			129-00-0		CAS#:		108-88-3		CAS#:		71-55-6				
Emission Source Type	Emission Source ID No.	d) Pollutant Name:			Pyrene		Pollutant Name:		Toluene		Pollutant Name:		1,1,1-Trichloroethane				
		e)			f)												
		Potential			Actual		Potential			Actual		Potential			Actual		
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr
EU	001	1.70E-06	7.46E-06	7.46E-06		2.48E-03	1.09E-02	1.09E-02		9.45E-05	4.14E-04	4.14E-04					
EU	002	1.52E-07	6.65E-07	6.65E-07		2.45E-08	1.07E-07	1.07E-07		8.43E-06	3.69E-05	3.69E-05					
EU	006	5.34E-07	2.34E-06	2.34E-06		7.79E-04	3.41E-03	3.41E-03		2.96E-05	1.30E-04	1.30E-04					

a)	b)	c) CAS#:			1330-20-7		CAS#:		7440-36-0		CAS#:		7440-38-2			
Emission Source Type	Emission Source ID No.	d) Pollutant Name:			Xylenes		Pollutant Name:		Antimony compounds		Pollutant Name:		Arsenic compounds			
		e)			f)											
		Potential			Actual		Potential			Actual		Potential			Actual	
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr			
EU	001	4.37E-05	1.91E-04	1.91E-04		1.79E-03	7.82E-03	7.82E-03		4.49E-04	1.97E-03	1.97E-03				
EU	002	3.89E-06	1.71E-05	1.71E-05		2.57E-05	1.13E-04	1.13E-04		9.80E-07	4.29E-06	4.29E-06				
EU	006	1.37E-05	5.99E-05	5.99E-05		9.05E-05	3.96E-04	3.96E-04		3.45E-06	1.51E-05	1.51E-05				

a)	b)	c) CAS#:	7440-41-7		CAS#:	7440-43-9			CAS#:	7440-47-3			
Emission Source Type	Emission Source ID No.	d) Pollutant Name:	Beryllium compounds		Pollutant Name:	Cadmium compounds			Pollutant Name:	Chromium compounds			
		e) Potential			f) Actual	Potential			Actual	Potential			Actual
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr
EU	001	9.45E-06	4.14E-05	4.14E-05		1.35E-04	5.93E-04	5.93E-04		3.72E-04	1.63E-03	1.63E-03	
EU	002	5.88E-08	2.58E-07	2.58E-07		5.39E-06	2.36E-05	2.36E-05		6.86E-06	3.01E-05	3.01E-05	
EU	006	2.07E-07	9.06E-07	9.06E-07		1.90E-05	8.30E-05	8.30E-05		2.41E-05	1.06E-04	1.06E-04	

a)	b)	c) CAS#:			7440-48-4		CAS#:		7439-96-5		CAS#:		7439-97-6			
Emission Source Type	Emission Source ID No.	d) Pollutant Name:			Cobalt compounds		Pollutant Name:		Manganese compounds		Pollutant Name:		Mercury compounds			
		e)			f)											
		Potential			Actual		Potential			Actual		Potential			Actual	
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr			
EU	001	2.05E-03	8.96E-03	8.96E-03		1.02E-03	4.47E-03	4.47E-03		3.84E-05	1.68E-04	1.68E-04				
EU	002	4.12E-07	1.80E-06	1.80E-06		1.86E-06	8.16E-06	8.16E-06		1.27E-06	5.58E-06	5.58E-06				
EU	006	1.45E-06	6.34E-06	6.34E-06		6.55E-06	2.87E-05	2.87E-05		4.48E-06	1.96E-05	1.96E-05				

a)	b)	c) CAS#:			7440-02-0		CAS#:		7782-49-2		CAS#:					
Emission Source Type	Emission Source ID No.	d) Pollutant Name:			Nickel compounds		Pollutant Name:		Selenium compounds		Pollutant Name:					
		e)			f)											
		Potential			Actual		Potential			Actual		Potential			Actual	
		Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr	Lbs per Hr	Unc tpy	Lim tpy	Tons per yr			
EU	001	2.87E-02	1.26E-01	1.26E-01		2.32E-04	1.02E-03	1.02E-03								
EU	002	1.03E-05	4.51E-05	4.51E-05		1.18E-07	5.15E-07	5.15E-07								
EU	006	3.62E-05	1.59E-04	1.59E-04		4.14E-07	1.81E-06	1.81E-06								

FACILITY DESCRIPTION: Potential-to-emit (by item)

Show: Active Records Only
AQD Facility ID: 03700070
Facility Name: Sanimax USA Inc

Item	Pollutant	Added By (Action)	Retired By (Action)	Hourly Potential (lbs per hr)	Unrestricted Potential (tons per yr)	Limited Potential (tons per yr)	Actual Emissions (tons per yr)
EU 001							
	Carbon Monoxide	PER 001		4.20E+00	1.84E+01	1.84E+01	
	Formaldehyde	PER 001		1.10E-02 1.32E-02	5.00E-02	5.00E-02	5.79E-02
	Nitrogen Oxides	PER 001		1.87E+01	8.19E+01	8.19E+01	8.19E+01
	PM < 2.5 micron	PER 006		3.25E+00	1.43E+01	1.43E+01	
	Lead	PER 005		5.13E-04	2.25E-03	2.25E-03	
	PM < 10 micron	PER 006		5.00E+00	2.19E+01	2.19E+01	
	Total Particulate Matter	PER 006		5.81E+00	2.54E+01	2.55E+01	
	Sulfur Dioxide	PER 005		1.02E+02 80.07	3.55E+02	1.50E+02	GP001
	Volatile Organic Compounds	PER 001		2.80E-01	1.20E+00	1.20E+00	
				350.71			
EU 002							
	Carbon Monoxide	PER 001		4.10E-01	1.80E+00	1.80E+00	
	Nitrogen Oxides	PER 005		7.14E-01	3.13E+00	3.13E+00	3.10E+00
	PM < 2.5 micron	PER 006		7.40E-01	3.23E+00	3.23E+00	
	Lead	PER 005		1.50E-05 2.45E-06	1.97E-04	1.97E-04	1.07E-05
	PM < 10 micron	PER 006		1.28E+00	5.50E+00	5.50E+00	
	Total Particulate Matter	PER 006		1.43E+00	6.24E+00	6.24E+00	
	Sulfur Dioxide	PER 005		1.00E+01 2.54	1.13E+04	6.45E+03	GP001
	Volatile Organic Compounds	PER 005		1.20E-01 2.70E-02	4.90E-01	4.90E-01	0.12
				11.11			
EU 003							
	PM < 2.5 micron	PER 006		9.70E-01	4.23E+00	4.23E+00	
	PM < 10 micron	PER 006		1.02E+00	4.45E+00	4.45E+00	
	Total Particulate Matter	PER 006		1.06E+00	4.62E+00	4.62E+00	
	Volatile Organic Compounds	PER 001		1.70E-01	7.40E-01	7.40E-01	
EU 005							
	PM < 2.5 micron	PER 006		5.00E-03	2.00E-02	2.00E-02	
	PM < 10 micron	PER 006		5.00E-03	2.00E-02	2.00E-02	
	Total Particulate Matter	PER 006		1.00E-02	8.00E-02	5.00E-03	
				0.007 0.032 0.032			
EU 006							
	Carbon Monoxide	PER 001		1.45E+00	6.34E+00	6.34E+00	
	Nitrogen Oxides	PER 001		2.51E+00	1.10E+01	1.10E+01	1.10E+01
	PM < 2.5 micron	PER 006		3.00E-02	1.40E-01	1.40E-01	
	Lead	PER 005		1.48E-04 8.62E-06	6.40E-04	6.40E-04	8.77E-05
	PM < 10 micron	PER 006		1.30E-01	5.50E-01	5.50E-01	
	Total Particulate Matter	PER 006		2.50E-01	1.10E+00	1.10E+00	
	Sulfur Dioxide	PER 005		8.12E+00 8.92	3.95E+04	3.55E+04	3.95E+01
	Volatile Organic Compounds	PER 001		9.00E-02	4.20E-01	4.20E-01	
				39.05 GP001			
EU 009							
	PM < 2.5 micron	PER 006		5.00E-02	2.00E-01	2.00E-01	
	PM < 10 micron	PER 006		5.00E-02	2.00E-01	2.00E-01	
	Total Particulate Matter	PER 006		7.00E-02	3.20E-01	3.20E-01	
EU 010							
	PM < 2.5 micron	PER 006		5.00E-02	2.00E-01	2.00E-01	
	PM < 10 micron	PER 006		5.00E-02	2.00E-01	2.00E-01	
	Total Particulate Matter	PER 006		7.00E-02	3.20E-01	5.00E-02	3.20E-01

FACILITY DESCRIPTION: Potential-to-emit (by item)

Show: Active Records Only

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

Item	Pollutant	Added By (Action)	Retired By (Action)	Hourly Potential (lbs per hr)	Unrestricted Potential (tons per yr)	Limited Potential (tons per yr)	Actual Emissions (tons per yr)
EU 011							
	PM < 2.5 micron	PER 006		1.00E-01	4.40E-01	4.40E-01	
	PM < 10 micron	PER 006		2.80E-01	1.25E+00	1.25E+00	
	Total Particulate Matter	PER 006		3.40E-02	1.47E+00	1.47E+00	
EU 014							
	PM < 2.5 micron	PER 006		1.00E-02	3.00E-02	3.00E-02	
	PM < 10 micron	PER 006		1.00E-02	3.00E-02	3.00E-02	
	Total Particulate Matter	PER 006		1.00E-02	4.00E-02	4.00E-02	0.039
EU 015							
	PM < 2.5 micron	PER 006		7.70E-01	3.39E+00	3.39E+00	
	PM < 10 micron	PER 006		1.36E+00	5.94E+00	5.94E+00	
	Total Particulate Matter	PER 006		1.52E+00	6.64E+00	6.64E+00	
	Volatile Organic Compounds	PER 006		1.60E-01	7.10E-01	7.10E-01	
EU 016							
	PM < 2.5 micron	PER 006		2.20E-01	9.60E-01	9.60E-01	
	PM < 10 micron	PER 006		3.80E-01	1.68E+00	1.68E+00	
	Total Particulate Matter	PER 006		4.30E-01	1.88E+00	1.88E+00	
	Volatile Organic Compounds	PER 006		5.00E-02	2.00E-01	2.00E-01	
EU 017							
	PM < 2.5 micron	PER 006		5.00E-02	2.20E-01	2.20E-01	
	PM < 10 micron	PER 006		1.40E-01	6.10E-01	6.10E-01	
	Total Particulate Matter	PER 006		1.70E-01	7.20E-01	7.20E-01	
FC 000							
	HAPs - Total	PER 005		4.36E-01	5.97E-02	5.97E-02	3.08E-02
	Sulfur Dioxide - see GPool	PER 005		0.19	0.84	0.84	
GP 003							
	PM < 2.5 micron	PER 006		1.02E+00	4.46E+00	4.46E+00	
	PM < 10 micron	PER 006		1.80E+00	7.84E+00	7.84E+00	
	Total Particulate Matter	PER 006		2.00E+00	8.76E+00	8.76E+00	
	Volatile Organic Compounds	PER 001		2.13E+00	9.32E+00	9.32E+00	

evenly split between both:

EU012 PM2.5
and PM10
EU013 PM
VOC

GPool SO₂

0.51	2.23	2.23
0.90	3.92	3.92
1.00	4.38	4.38
1.06	4.66	4.66
		240



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

ME-01-R

Continuous Monitors (MR), Data Acquisition Systems (DA)
and Continuous Monitor Systems (CM)
Supplemental Information for Title V Reissuance
Air Quality Permit Program

Doc Type: Permit Application

Instructions on Page 3

- 1) AQ Facility ID No. (first 8 digits of permit number): 03700070
- 2) Facility Name: Sanimax USA Inc.

To complete this form, you will need the colored sheet(s) labeled

- Facility Description: Continuous Monitors (MR)
- Facility Description: Data Acquisition Systems (DA)
- Facility Description: Continuous Monitoring Systems (CM)

- 3) Review the information on the colored sheets labeled "Facility Description: Continuous Monitors (MR)," "Facility Description: Data Acquisition Systems (DA)," and "Facility Description: Continuous Monitoring Systems (CM)."

If there is no information listed below the column headings on any of the sheets, that means that the Minnesota Pollution Control Agency (MPCA) does not have any continuous monitoring information on record for your facility. For the purposes of this form, a continuous monitor (MR) is considered a continuous monitor system (CM) only if it is associated with a data acquisition system (DA). If you manually record data collected by a monitor (e.g. if you daily read and record pressure drop in a log book), it is not considered a continuous monitor or monitor system for this form. Continuous monitors and continuous monitor systems include continuous emission monitors, continuous opacity monitors, and continuous parameter monitors.

If nothing is listed and you do not have continuous monitors or monitoring systems, answer **Yes** to this question. If nothing is listed but you do have continuous monitors or continuous monitoring systems, skip to Question 6 below.

If there is information listed below the column headings on the colored sheet(s), is the information complete and accurate (i.e., is every monitor and/or system listed still in use, and is every monitor and/or system in use listed)?

- ☒ Yes – The "Facility Description: Continuous Monitors (MR)," "Facility Description: Data Acquisition Systems (DA)," and "Facility Description: Continuous Monitoring Systems (CM)" forms are complete and accurate. No changes are necessary. Done with this form. Return this page with your application.

☐ No – Go to Question 4.

- 4) Are there changes to be made that are administrative in nature (e.g., typographical errors, incorrect dates, other errors)?
[Note: This does not include replacing listed monitors or systems with new ones.]

☐ Yes – Using a red pen, make those changes on the colored sheets. Go to Question 5.

☐ No – Go to Question 5.

- 5) Are there monitors or systems listed that are no longer in use at the facility?

☐ Yes – Using a red pen, draw a line on the colored sheet through the equipment that is no longer in use. Indicate the date it was removed. Go to Question 6.

☐ No – Go to Question 6.

- 6) Are there continuous monitors or systems in use that are not listed (either additional equipment, or equipment that replaced something you crossed out for Question 5)?

☐ Yes – Complete the appropriate portion of the table on the next page for each continuous monitor or continuous monitoring system that is not currently listed on the colored sheets. Return this form (pages 1, 2, and 3) and the colored sheets labeled "Facility Description: Continuous Monitors (MR)," "Facility Description: Data Acquisition Systems (DA)," and "Facility Description: Continuous Monitoring Systems (CM)" with your application.

☐ No – Done with this form. Return this page and the colored sheets labeled "Facility Description: Continuous Monitors (CM)," "Facility Description: Data Acquisition Systems (DA)," and "Facility Description: Continuous Monitoring Systems (CM)" with your application.



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
320 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

8 January, 2013 07:01

FACILITY DESCRIPTION: CONTINUOUS MONITORS (MR)

Show: Active Records Only

Action:

AQD Facility ID: 03700070

Facility Name: Sanitrac USA Inc

ID No.	Monitor Status	Added By (Action)	Retired By (Action)	Monitored Item (ID No(s))	Operator ID for Item	Monitor Description	Manufacturer	Model Number	Serial Number	Parameters Monitored
--------	----------------	-------------------	---------------------	---------------------------	----------------------	---------------------	--------------	--------------	---------------	----------------------

FACILITY DESCRIPTION: CONTINUOUS MONITORS (MR)

ID No.	Monitor Status	Added By (Action)	Span Value	System Full-Scale Value	Bypass Capability?	Optical Path Length Ratio	Installation Date	Removal Date
--------	----------------	-------------------	------------	-------------------------	--------------------	---------------------------	-------------------	--------------



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

8 January, 2013 07:01

FACILITY DESCRIPTION: DATA ACQUISITION SYSTEMS (DA)

Show: Active Records Only

Action:

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

ID No.	DAS Status	Added By (Action)	Retired By (Action)	Operator ID for Item	Data Acquisition System Description	Manufacturer	Model Number	Serial Number	Data Storage Medium	Installation Date	Removal Date
--------	---------------	-------------------------	---------------------------	----------------------------	-------------------------------------	--------------	--------------	---------------	------------------------	----------------------	-----------------



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

8 January, 2013 07:01

8 January, 2013 07:01

FACILITY DESCRIPTION: CONTINUOUS MONITORING SYSTEMS (CM)

Show: Active Records Only

Action:

AQD Facility ID: 03700070

Facility Name: Sanimax USA Inc

ID No.	CMS Status	Added By (Action)	Retired By (Action)	Monitor ID No(s)	DAS ID No(s)	Operator ID for Item	CMS Description	Parameter	Month/ Year Installed	Month/ Year Removed	Cert. Date	Cert. Basis
--------	------------	-------------------	---------------------	------------------	--------------	----------------------	-----------------	-----------	-----------------------	---------------------	------------	-------------



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-09A-R

**NESHAP for Source Categories (40 CFR pt. 63)
Supplemental Information for Title V Reissuance
Air Quality Permit Program**

Doc Type: Permit Application

AQ Facility ID No.: 03700070 AQ File No.: 578
Facility Name: Sanimax USA Inc.

This form will help you to determine if any requirements for the National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Source Categories (40 CFR pt. 63) apply to your facility.

- 1) Read through Table A, the list of Hazardous Air Pollutants (HAP) and check one of the following:
- ☐ No. My facility **does not currently** emit any pollutants from the list, and therefore is not subject to the requirements for NESHAP for Source Categories. My facility is not subject to NESHAP for Source Categories, 40 CFR pt. 63. Go to question 6.
- ☒ Yes. My facility **does** emit one or more pollutants from the list. Go on to question 2a.
- 2a) Does your source have the potential to emit 10 tons per year or more of any single pollutant listed in Table A?
- ☐ Yes. My facility is a major source of HAP emissions. Go to question 3.
- ☒ No. Go to question 2b.
- 2b) Does your source have the potential to emit 25 tons per year or more of any combination of pollutants listed in Table A?
- ☐ Yes. My facility is a major source of HAP emissions. Go to question 3.
- ☒ No. My facility is not a major source of HAP emissions. Go to question 5.
- 3) The attached Table B is a list of NESHAP for Major Source Categories and important dates associated with each of them. Does your facility have any equipment that fits any of the major source categories listed for which a rule has been promulgated?
- ☐ No. Go to question 6.
- ☐ Yes. My facility is subject to a promulgated NESHAP. Go to question 4.
- 4) Has the promulgated NESHAP already been incorporated into your current permit?
- ☐ Yes. Go to question 6.
- ☐ No. My facility is subject to a promulgated NESHAP which needs to be incorporated into my permit. In the table on the next page, list all the source categories that became applicable to your facility that have not already been included in your permit, and the associated dates shown in Table B. You do not need to list the source categories for which the applicable NESHAP (as promulgated) has already been incorporated into your permit.

If your permit currently includes case-by-case Maximum Achievable Control Technology (MACT) requirements incorporated through a permit authorizing construction or reconstruction of a major HAP source before the standard listed in Table B was promulgated, you need to request that the promulgated NESHAP be incorporated. The Minnesota Pollution Control Agency (MPCA) determines if the existing case-by-case limit is substantially as effective as the promulgated standard (40 CFR § 63.52(a)(3)(i)).

Applicable MACT Standard from Table B	Compliance Date	Permit already includes Case-by-Case determination for this standard?	
		☐ Yes	☐ No
		☐ Yes	☐ No
		☐ Yes	☐ No
		☐ Yes	☐ No
		☐ Yes	☐ No
		☐ Yes	☐ No

Attach a copy of each applicable NESHAP standard you listed above, with the applicable parts highlighted. If the applicable standard offers more than one compliance option, make it clear which one you are choosing.

- 5) The attached Table C is a list of NESHAP for Area Source Categories and compliance dates associated with each of them. These standards can apply to major and non-major sources of HAP. Does your facility have any equipment that fits any of the categories listed in Table C?

- ☒ No. Go to question 6.
- ☐ Yes. Read those subparts that you think may be applicable. List below all the source categories that you determine are applicable to your facility, and the associated Compliance Date (listed in Table C). Attach a copy of each applicable subpart of the NESHAP for source categories, and highlight the applicable requirements in each applicable subpart. Then go on to question 6.

Applicable Area Source Category (Subpart or Title)	Compliance Date

- 6) This form is complete; include it with your permit application.



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-09D-R

New Source Performance Standards (NSPS)

(40 CFR part 60)

Supplemental Information for Title V Reissuance

Air Quality Permit Program

Doc Type: Permit Application

Facility Information - Standards of Performance for New Stationary Sources (NSPS, 40 CFR pt. 60)

AQ Facility ID No.: 03700070

Facility Name: Sanimax USA Inc.

- 1) NSPS are federal rules that define limits, testing and monitoring for certain specific emission units. These standards are proposed and promulgated in the Federal Register and published in the Code of Federal Regulations, title 40 part 60 (40 CFR pt. 60). Table D lists the standards promulgated through June 2008. Table D may not be complete if a new NSPS has been promulgated since this form was last revised. The table contains:

- a brief emission source description
- a corresponding 40 CFR pt. 60 subpart reference
- an effective date for all performance standards promulgated as of June 2008

[Note: The best way to keep up-to-date on NSPS regulations is through the U.S. Environmental Protection Agency's Web page (www.epa.gov) or the Federal Register since there can be a significant time lag between the date when a standard is proposed or promulgated and when it is finally published in the Code of Federal Regulations.]

- 2) Please read through the emission sources in Table D. If you have modified (as defined in 40 CFR § 60.14), reconstructed (as defined in 40 CFR § 60.15) or constructed the described emission source on or after the effective date listed in the table, your facility may be subject to the requirements of 40 CFR pt. 60. Generally, reconstruction means that the cost of a repair exceeds 50 percent of what it would cost to install a new emission unit. If you have had an extensive and expensive repair, it may count as a reconstruction.

If you know or suspect standards may apply to your facility you must refer to the corresponding 40 CFR pt. 60 subpart and read the requirements in detail to make a final determination. Note: the general provisions found in 40 CFR pt. 60, subp. A, apply to **all** facilities subject to any other NSPS requirements.

- 3) After you review the list of sources subject to NSPS and read any applicable 40 CFR pt. 60 subparts, check one of the following boxes:

- ☐ No, my facility is not subject to NSPS. Go to Question 5.
- ☒ Yes, my facility is subject to NSPS and all of the applicable NSPS are already included in my existing permit. Go to Question 5.
- ☐ Yes, my facility is subject to NSPS, and one or more applicable NSPS is not currently included in my existing permit. Go to Question 4.

- 4) The following page lists information needed to identify your facility's emission sources subject to NSPS. Complete the group of questions for all emission equipment subject to NSPS that has not already been included in your existing permit, attaching additional pages if necessary. Photocopy each 40 CFR pt. 60 subpart you have listed and highlight the portions of each subpart that directly apply to your facility, including the general provisions found in Subpart A. Attach the copies to this application form.

The Minnesota Pollution Control Agency (MPCA) has made some NSPS regulations (including Subpart A) available in a checklist format. The available regulations are starred in Table D. To obtain copies, go to <http://www.pca.state.mn.us/air/permits/forms.html#12>.

- 5) This form is complete; include it with your permit application.



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

GI-09H

Requirements: CAM (40 CFR pt. 64)
Air Quality Permit Program

Doc Type: Permit Application

Compliance Assurance Monitoring (CAM) (40 CFR pt. 64)

AQ Facility ID No.: 03700070

AQ File No.: 578

Facility Name: Sanimax USA Inc

The CAM rule applies to certain emission units at facilities required to obtain a Part 70 permit.

In general, CAM applies to emission units meeting the following criteria:

1. The emission unit is subject to an emission limit or standard (including limits and standards in Minnesota Rules contained in the State Implementation Plan) for an air pollutant regulated by Part 70.
2. Compliance with the applicable limit or standard is achieved through the use of add-on control equipment.
3. The emission unit has pre-controlled potential emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the Part 70 major source level for that pollutant (in tons per year).

For exemptions, see Table C at the end of this form.

Use of continuous emissions monitoring system (CEMS), continuous opacity monitoring system (COMS), or predictive emission monitoring system (PEMS) does not qualify as an exemption to the CAM rule. However, 40 CFR §64.3(d) states that use of a CEMS, COMS, or PEMS meets the requirements of Compliance Assurance Monitoring (CAM).

CAM applicability is determined on a pollutant-by-pollutant basis for each "pollutant specific emissions unit," (PSEU) defined at 40 CFR § 64.1 as "an emissions unit considered separately with respect to each regulated air pollutant." For purposes of CAM submittal requirements, a "large PSEU" is an emissions unit with potential *controlled* emissions equal to or greater than 100 percent of the major source threshold amount for a given regulated pollutant. ("Major source threshold amount" as it applies to Minnesota, means 100 tons per year of particulate matter (PM), particulate matter smaller than 10 microns in aerodynamic diameter (PM₁₀), particulate matter smaller than 2.5 microns in aerodynamic diameter (PM_{2.5}), sulfur dioxide (SO₂), nitrogen oxides (NO_x), volatile organic compounds (VOC), carbon monoxide (CO), or lead; 10 tons per year of any hazardous air pollutant (HAP); or 25 tons per year of any combination of HAPs. The levels may be different in current or future nonattainment areas. Refer to 40 CFR § 70.2 under the definition of "major source" for further detail. "Other PSEUs" are those units whose uncontrolled potential emissions may be equal to or greater than 100 percent of the major source threshold amount, but controlled emissions are less than that threshold.

- **If you are applying for the first time for a Part 70 permit**, after determining the uncontrolled and controlled potential emissions of the emissions units, questions 1-3 must be considered for each large PSEU, as defined above.
 - **If you are applying for a major amendment to an existing Part 70 permit**, after determining the uncontrolled and controlled potential emissions of the emissions units, questions 1-3 must be considered for any large PSEU, as defined above, to which the amendment is applicable.
 - **If you are applying for reissuance of an existing Part 70 permit:**
 - ☒ CAM applicability has already been determined for all PSEUs and CAM has been incorporated in the permit where necessary, and this permit application requests no changes affecting CAM applicability. Done with this form. Submit this form with your application.
 - ☐ CAM applicability has already been determined and incorporated in the permit where necessary, but I would like to request some changes to the existing CAM. Done with this form and a new CAM Plan reflecting your requested changes with the application. Also show changes on CD-01-R and the Compliance Plan CD-01 received from the MPCA.
 - ☐ CAM applicability has been determined for some but not all PSEUs at the facility. After determining the uncontrolled and controlled potential emissions of the emissions units for which CAM applicability has not already been determined through a Part 70 permit action, questions 1-3 must be considered for each of those PSEUs (large and other).
- 1)** Is the unit subject to an emission limitation or standard, specified in either a rule or permit? For existing emission units, check your current permit to see if there are any emission limits specified for the emission unit.
- ☐ Yes, the emission unit is subject to an emission limitation or standard. Go on to question 2.
 - ☐ No, the emission unit is not subject to CAM. Record the EU number and reason CAM doesn't apply in Table B. Repeat question 1 for next emission unit.



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

CD-01-R

**Compliance Plan -- Supplemental Information
for Title V Reissuance
Air Quality Permit Program**

Doc Type: Permit Application

1a) AQ Facility ID No.: 03700070 1b) AQ File No.: 578
2) Facility Name: Sanimax USA Inc.

To complete this form, you will need the colored sheet(s) labeled *Compliance Plan CD-01* (and Appendices, if applicable) and the *Part 70 Reissuance Forms: GI-09A-R, GI-09D-R, GI-09H, and CH-01-R*. You may need the entire *GI-09* series of forms (*GI-09, GI-09A – GI-09J*).

3) Review the information on the colored sheet(s) labeled "Compliance Plan CD-01," which may include references to Appendices to the permit. Are the citations and requirements listed on the form accurate (i.e., do the listed requirements still apply and are the citations correct)?

- ☐ Yes
☒ No – Using a red pen, draw a line on the colored sheet through the requirements that no longer apply or the citations that need to be changed. To the extent possible, write in any changes to be made.

4) Complete Form CH-01-R. On Question 3 of Form CH-01-R, did you list installation of any new equipment or process that is not an insignificant activity and has not already been included in your existing permit?

- ☐ Yes – Complete Form GI-09 and all forms referenced therein (<http://www.pca.state.mn.us/air/permits/forms.html#1b-general>) to determine regulatory applicability of each new unit or process listed in Question 3 on Form CH-01-R. Then go to Question 5.
☒ No – Go to Question 5.

5) Complete Forms GI-09A-R, GI-09D-R, and GI-09H, for your existing equipment and operations (those not addressed in Question 4). Do any of the requirements on these forms newly-apply to existing portions of your facility (in addition to what is already on the colored sheets)?

- ☐ Yes – Go to Question 6.
☒ No – Go to Question 6.

6) Did you answer "yes" to either of questions 4 or 5?

- ☐ Yes – Complete Form CD-01 (<http://www.pca.state.mn.us/air/permits/forms.html#1c-compliance>) and all forms referenced therein (a) for each new emission unit or process listed in Question 3 of form CH-01-R (emissions units or process that are not included in the existing permit and are not insignificant activities), and (b) for any existing emission unit or process that is subject to an applicable requirement not already included in the existing permit. Include the following in your application:
- this form
 - the completed Form CD-01 and all forms referenced therein
 - the colored sheet(s) labeled "Compliance Plan CD-01" (and appendices, if applicable)
 - Forms GI-09A-R, GI-09D-R, and GI-09H
 - Form GI-09 and all associated forms (if you answered "yes" to Question 4)
- ☒ No – Include the following in your application
- this form
 - the colored sheet(s) labeled "Compliance Plan CD-01" (and appendices, if applicable)
 - Forms GI-09A-R, GI-09D-R, GI-09H



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: Total Facility

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	SOURCE-SPECIFIC REQUIREMENTS
2.0		CD	Title I Condition: To avoid classification as major source or modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; to avoid major source classification under 40 CFR Section 63.2	This permit establishes limits on the facility to keep it non-major source under New Source Review, 40 CFR Section 52.21 and 40 CFR Section 63.2. The Permittee cannot make any change at the source that would make the source a major source under New Source Review or under 40 CFR Section 63.2 until a permit amendment has been issued. This includes changes that might otherwise qualify as insignificant modifications and minor or moderate amendments.
3.0		CD	40 CFR pt. 50; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subps. 7A, 7L & 7M; Minn. R. 7007.0800, subps. 1, 2, & 4; Minn. R. 7009.0010-7009.0080	The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0080. Compliance shall be demonstrated upon written request by the MPCA.
4.0		CD	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	The parameters used in PM10 and PM2.5 modeling for permit number 03700070-006 are listed in Appendix II of this permit.
5.0		CD	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	Modeling Triggers: For changes that do not require a permit amendment and affect any modeled parameter or emission rate documented in Appendix II, a Remodeling Submittal requirement is not triggered at the time of the change. The Permittee shall keep updated records on site of all parameters and emission rates. The Permittee shall submit any changes to parameters and emission rates with the next required Remodeling Submittal. For changes that require a minor, moderate, or major permit amendment and affect any modeled parameter or emission rate documented in Appendix II, a Remodeling Submittal requirement is triggered. The Permittee shall include previously made changes to parameters and emission rates that did not trigger a Remodeling Submittal.
6.0		CD	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	Remodeling Submittal: The Permittee must submit to the Commissioner for approval changes meeting the above criteria and must wait for a written approval before making such changes. For minor amendments, written approval of the modeling may be given before permit issuance; however, this approval applies only to the modeling and not to any other changes. The information submitted must include, for stack and vent sources, source emission rate, location, height, diameters, exit velocity, exit temperature, discharge direction, use of rain caps or rain hats, and, if applicable, locations and dimensions of nearby buildings. For non-stack/vent sources, this includes the source emission rate, location, size and shape, release height, and, if applicable, any emission rate scalars, and the initial lateral dimensions and initial vertical dimensions and adjacent building heights.
7.0		CD	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	Remodeling Submittal, continued: The plume dispersion characteristics due to the revisions of the information must be equivalent to or better than the dispersion characteristics modeled dated November 2, 2010, for PM2.5. The Permittee shall demonstrate this equivalency in the proposal. If the information does not demonstrate equivalent or better dispersion characteristics, or if a conclusion cannot readily be made about the dispersion, the Permittee must submit full remodeling.
8.0		CD	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	Modeling at Reissuance: The Permittee shall submit an assessment with the reissuance application (due as stated elsewhere in this permit) that addresses any changes made during the permit term that did not require a permit amendment but that affected any modeled parameter or emission rate and were not assessed in a later modeling submittal. The information in this submittal shall be the same as listed in the requirement entitled "Remodeling Submittal".
9.0		CD	hdr	OPERATIONAL REQUIREMENTS



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

10.0		CD	Minn. R. 7007.0800, subp. 2	Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in Appendix I, Insignificant Activities. Modeling parameters in Appendix II, "Modeled Parameters Relied Upon for PM10 and PM2.5 National Ambient Air Quality Standards" are included for reference only and compliance with these parameters is achieved through meeting the requirements located in Permit No. 03700070-006.
11.0		CD	Minn. R. 7011.0020	Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.
12.0		CD	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)	Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and shall include a preventative maintenance program for that equipment, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment, and the records kept to demonstrate plan implementation.
13.0		CD	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)	Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.
14.0		CD	Minn. R. 7007.0800, subp. 14	The Permittee shall operate and maintain all pollution control equipment in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.
15.0		CD	Minn. R. 7019.1000, subp. 4	Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.
16.0		CD	Minn. R. 7011.0150	Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.
17.0		CD	Minn. R. 7030.0010 - 7030.0080	Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.
18.0		CD	Minn. R. 7007.0800, subp. 9(A)	Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).
19.0		CD	Minn. R. 7007.0800, subp. 16	The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.
20.0		CD	hdr	NOTIFICATION REQUIREMENTS
21.0		CD	Minn. R. 7019.1000, subp. 3	Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

22.0		CD	Minn. R. 7019.1000, subp. 2	Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.
23.0		CD	Minn. R. 7019.1000, subp. 1	Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.
24.0		CD	Minn. R. 7019.1000, subp. 1	Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.
25.0		CD	hdr	MONITORING EQUIPMENT REQUIREMENTS
26.0		CD	Minn. R. 7007.0800, subp. 4(D)	Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).
27.0		CD	Minn. R. 7007.0800, subp. 4(D)	Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.
28.0		CD	hdr	PERFORMANCE TESTING REQUIREMENTS
29.0		CD	Minn. R. ch. 7017	Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.
30.0		CD	Minn. R. 7017.2030, subp. 1-4 and Minn. R. 7017.2035, subp. 1-2	Performance Test Notifications and Submittals: Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements. Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test
31.0		CD	hdr	RECORDKEEPING REQUIREMENTS
32.0		CD	Minn. R. 7007.0800, subp. 5(B)	Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.
33.0		CD	Minn. R. 7007.0800, subp. 5(C)	Recordkeeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).
34.0		CD	hdr	REPORTING REQUIREMENTS



COMPLIANCE PLAN CD-01

Facility Name: Sanlmax USA Inc

Permit Number: 03700070 - 006

35.0	CD	Minn. R. 7007.1150 through Minn. R. 7007.1500	Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.
36.0	S/A	Minn. R. 7007.0400, subp. 2	Application for Permit Reissuance: due 180 days before expiration of Existing Permit.
37.0	CD	Minn. R. 7007.1400, subp. 1(H)	Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H).
38.0	S/A	Minn. R. 7007.0800, subp. 6(A)(2)	Semiannual Deviations Report: due 30 days after end of each calendar half-year starting 04/29/2003. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.
39.0	S/A	Minn. R. 7007.0800, subp. 6(C)	Compliance Certification: due 31 days after end of each calendar year starting 04/29/2003 (for the previous calendar year). To be submitted on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.
40.0	CD	Minn. R. 7019.3000 through Minn. R. 7019.3010	Emission Inventory Report: due 91 days after end of each calendar year following permit issuance (April 1). To be submitted on a form approved by the Commissioner.
41.0	CD	Minn. R. 7002.0005 through Minn. R. 7002.0095	Emission Fees: due 60 days after receipt of an MPCA bill.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: GP 001 Combustion Equipment Subject to Facility-Wide SO₂ Limit

Associated Items: EU 001 Boiler No. 1

EU 002 Ring/Blood Dryer

EU 006 Boiler No. 2

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid major source classification and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	Sulfur Dioxide: less than or equal to 240 tons/year using 12-month Rolling Sum as described below in Equation 1 to be calculated by the 15th day of each month for the previous 12-month period as described later in this permit.
3.0		CD	Title I Condition: To avoid major source classification and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	Equation 1: $SO_2 = [(EF_{ng} \times S\%_{ng} \times VOL_{ng}) + (EF_r \times S\%_r \times VOL_r) + (EF_d \times S\%_d \times VOL_d) + (EF_{rafvo} \times S\%_{rafvo} \times VOL_{rafvo}) + (EF_b \times S\%_b \times VOL_b) + (EF_p \times S\%_p \times VOL_p) + (EF_g \times S\%_g \times VOL_g)] / 2000$ Where, SO₂ = annual sulfur dioxide emissions (tons per year) Natural Gas -- EF_{ng} = most recent US EPA-approved emission factor for SO₂ emissions from natural gas combustion assuming all SO₃ converts to SO₂ (lb per gallon) S%_r = 12-month weighted average residual fuel oil sulfur content as certified by the supplier (percent by weight) VOL_r = volume of natural gas fired by the emission units in GP 001 using 12-month rolling sum (gallons per year)
4.0		CD	Title I Condition: To avoid major source classification and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	CONTINUED Residual Fuel Oil -- EF _r = most recent US EPA-approved emission factor for SO ₂ emissions from residual fuel oil combustion assuming all SO ₃ converts to SO ₂ (lb per gallon) S% _r = 12-month weighted average residual fuel oil sulfur content as certified by the supplier (percent by weight) VOL _r = volume of residual fuel oil fired by the emission units in GP 001 using 12-month rolling sum (gallons per year)
5.0		CD	Title I Condition: To avoid major source classification and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	CONTINUED Distillate Fuel Oil -- EF _d = most recent US EPA-approved emission factor for SO ₂ emissions from distillate fuel oil combustion assuming all SO ₃ converts to SO ₂ (lb per gallon) S% _d = 12-month weighted average distillate fuel oil sulfur content as certified by the supplier (percent by weight) VOL _d = volume of distillate fuel oil fired by the emission units in GP 001 using 12-month rolling sum (gallons per year)
6.0		CD	Title I Condition: To avoid major source classification and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	CONTINUED Refined Animal Fats and Vegetable Oils (RAFVO) -- EF _{rafvo} = most recent US EPA-approved emission factor for SO ₂ emissions based on distillate fuel oil combustion and assuming all SO ₃ converts to SO ₂ (lb per gallon) S% _{rafvo} = average RAFVO sulfur content as certified by laboratory analysis (percent by weight) VOL _{rafvo} = volume of RAFVO fired by the emission units in GP 001 using 12-month rolling sum (gallons per year)
				2000 = conversion factor (lbs per ton)



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

7.0	CD	Title I Condition: To avoid major source classification and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	CONTINUED Biodiesel -- EFb = most recent US EPA-approved emission factor for SO₂ emissions based on distillate fuel oil combustion and assuming all SO₃ converts to SO₂ (lb per gallon) S%b = average biodiesel sulfur content as certified by laboratory analysis (percent by weight) VOLb = volume of biodiesel fired by the emission units in GP 001 using 12-month rolling sum (gallons per year) 2000 = conversion factor (lbs per ton)
8.0	CD	Title I Condition: To avoid major source classification and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	CONTINUED Propane -- EFp = most recent US EPA-approved emission factor for SO₂ emissions from propane combustion assuming all SO₃ converts to SO₂ (lb per gallon) S%p = 12 month weighted average propane sulfur content as certified by the supplier (percent by weight) VOLp = volume of propane fired by the emission units in GP 001 using 12-month rolling sum (gallons per year) 2000 = conversion factor (lbs per ton)
9.0	CD	Title I Condition: To avoid major source classification and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	CONTINUED Glycerin -- EFg = most recent US EPA-approved emission factor for SO₂ emissions based on distillate fuel oil combustion and assuming all SO₃ converts to SO₂ (lb per gallon), until a testing factor is determined based on the testing requirements below S%g = average glycerin sulfur content as certified by laboratory analysis (percent by weight) VOLg = volume of glycerin fired by the emission units in GP 001 using 12-month rolling sum (gallons per year) 2000 = conversion factor (lbs per ton)
10.0	CD	hdr	RECORDKEEPING REQUIREMENTS
11.0	CD	Title I Condition: To avoid major source classification and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	Daily Recordkeeping -- SO₂ Emissions: The Permittee shall gather and record the following information: 1) Volume of residual fuel oil in gallons combusted in GP 001 for each day residual fuel oil is combusted in GP 001. 2) Volume of distillate fuel oil in gallons combusted in GP 001 for each day distillate fuel oil is combusted in GP 001. 3) Volume of refined animal fats and vegetable oils (RAFVO) in gallons combusted in GP 001 for each day RAFVO is combusted in GP 001. 4) Volume of biodiesel in gallons combusted in GP 001 for each day biodiesel is combusted in GP 001. 5) Volume of propane in gallons combusted in GP 001 for each day propane is combusted in GP 001. 6) Volume of glycerin in gallons combusted in GP 001 for each day glycerin is combusted in GP 001.
12.0	CD	Minn. R. 7007.0800; subps. 4 and 5	Monthly Recordkeeping -- SO₂ Emissions: By the 15th day of the month, the Permittee shall record and calculate the following: 1) Volume of residual fuel oil in gallons combusted in GP 001 during the previous month, calculated by summing the data collected for each day residual fuel oil was combusted in GP 001. 2) Volume of distillate fuel oil in gallons combusted in GP 001 during the previous month, calculated by summing the data collected for each day distillate fuel oil was combusted in GP 001. 3) Volume of RAFVO in gallons combusted in GP 001 during the previous month, calculated by summing the data collected for each day RAFVO was combusted in GP 001.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc.

Permit Number: 03700070 - 006

13.0		CD	Minn. R. 7007.0800, subps. 4 and 5	CONTINUED 4) Volume of biodiesel in gallons combusted in GP 001 during the previous month, calculated by summing the data collected for each day biodiesel was combusted in GP 001. 5) Volume of propane in gallons combusted in GP 001 during the previous month, calculated by summing the data collected for each day propane was combusted in GP 001. 6) Volume of glycerin in gallons combusted in GP 001 during the previous month, calculated by summing the data collected for each day glycerin was combusted in GP 001. 7) SO₂ emissions from residual fuel oil, distillate fuel oil, RAFVO, biodiesel, propane, and glycerin combustion from the previous 12 calendar months, calculated by using the data collected above from Items 1, 2, 3, 4, 5, 6, and 7 in Equation 1, and adding it the sum of the emissions data for the prior 11 months.
14.0		CD	Minn. R. 7007.0800, subps. 4 and 5	Monthly Recordkeeping and Calculation- HAP Emissions: The Permittee shall maintain records and calculate the individual HAP and total HAP emissions on a monthly basis and 12-month rolling sum. Calculations shall be performed using MPCA approved emission factors as determined by performance test. HAPs recordkeeping and calculations shall performed after the initial glycerin and biodiesel testing are conducted.
15.0		CD	hdr	FUEL TESTING REQUIREMENTS
16.0		CD	Minn. R. 7017.2020, subp. 1	Initial Performance Test for Glycerin Combustion: due within 30 days of commencing the burning of glycerin in EU 001, EU 002, or EU 006.
17.0		CD	Minn. R. 7017.2020, subp. 1	Initial Performance Test for Biodiesel Combustion: due within 30 days of commencing the burning of biodiesel in EU 001, EU 002, or EU 006.
18.0		CD	Minn. R. 7007.0800, subp. 2	Fuel Testing Restrictions: Test burns shall be done in accordance with an MPCA-approved test plan and limited to no more than 14 days of operation and a test period not to exceed 90 days.
19.0		CD	Minn. R. 7007.0800, subp. 2	Fuel Testing Requirements: Test burns shall be conducted for glycerin and biodiesel to measure emissions of PM, PM ₁₀ , Opacity, CO, NO _x , SO ₂ , HCL, VOCs, HAPs and other chemicals of potential interest as determined by the MPCA for the purpose of developing emission factors.
20.0		CD	Minn. R. 7017.2030, subp. 1-4; Minn. R. 7017.2018	Fuel Testing Submittals: 30 days prior to testing glycerin or biodiesel, the Permittee shall submit a written performance test notification and test plan. The test plan shall: 1) meet the requirements of Minn. R. 7017.2030 2) include the type and estimated amount of fuels to be tested; operating parameters and anticipated fuel mixes during the test; air pollutants that will be measured during the testing; and a testing schedule, and 3) include an estimate of sulfur dioxide emissions based on analysis of the fuel for sulfur content.
21.0		CD	Minn. R. 7017.2030, subp. 1-4; Minn. R. 7017.2018 and Minn. R. 7017.2035, subp. 1-2	Performance Test Notifications and Submittals; Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-Test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy or CD: due 105 day after each Performance Test. The Notification, Test Plan, and Test Report may be submitted in alternate format as allowed by Minn. R. 7017.2018.
22.0		CD	hdr	ALTERNATIVE COMPLIANCE
23.0		CD	Minn. R. 7007.0800 subp. 2	Authorization to Burn Glycerin and/or Biodiesel Fuels Tested Below Existing Permit Limits: Within 45 days of completion of the fuel test, the Permittee shall submit a written test report to the MPCA that characterizes emissions from the tested fuel. Specifically the report will describe whether use of the fuel can be accomplished while the Permittee remains under existing permit limits for criteria and hazardous air pollutants. Upon written approval from the MPCA, and receipt of the appropriate permit amendment when necessary where there may be an increase in criteria pollutant emissions in pounds per hour, the Permittee may commence the use of the tested fuel. For any tested fuel where compliance with existing permit limits cannot be demonstrated during its use, the Permittee may not use such a fuel until it has complied with the permit amendment requirements in Minn. R. 7007.1150 through 7007.1500.



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

Page 8 of 32

8 Jan, 2013 07:02

COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc.

Permit Number: 03700070 - 006

24.0		CD	Minn. R. 7007.0800, subp. 2	CONTINUED If the tested fuel has emission factors higher than those specified but will not exceed 240.0 tpy of any individual criteria pollutant, 9.0 tpy of any HAP or 20.0 tons of total HAPs, upon written approval from the MPCA, and receipt of the appropriate permit amendment when necessary where there may be an increase in criteria pollutant emissions in pounds per hour, the Permittee may commence the use of the tested fuel using the tested emission factors as a limit.
25.0		CD	Minn. R. 7007.0800, subp. 2	CONTINUED If the tested fuel has emission factors higher than those specified and will exceed 240.0 tpy of any individual criteria pollutant, 9.0 tpy of any HAP or 20.0 tons of total HAPs, or there may be a significant increase in criteria pollutant emissions in pounds per hour, the Permittee must obtain an appropriate permit amendment prior to commencing the use of the tested fuel.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: GP 002 Continuous Milling System and Associated Control Equipment

Associated Items: CE 016 Particulate Capture Unit

EU 011 Continuous Milling System

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain CE 016 such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 90 percent control efficiency
3.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain CE 016 such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 90 percent control efficiency
4.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain CE 016 such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 90 percent control efficiency
5.0		CD	Title I Condition: To avoid major source classification and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	The Permittee shall vent emissions from EU 011 to CE 016 at all times EU 011 is in operation to meet applicable PM and PM10 limits. The Permittee shall operate and maintain CE 016 at all times that any emission unit controlled by CE 016 is in operation. The Permittee shall document periods of non-operation of the control equipment.
6.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
7.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	Visible Emissions and Broken Bag Detector: The Permittee shall check CE 016's stack (SV 011) for any visible emissions and its broken bag detector once each day of operation during daylight hours.
8.0		CD	Minn. 7007.0800, subp. 5	Recordkeeping of Visible Emissions and Broken Bag Detector for CE 016: The Permittee shall record the time and date of each visible emission inspection and broken bag detector reading, and whether or not any visible emissions were observed, and whether or not the broken bag detector indicated that a part on CE 016 required repair or replacement.
9.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the broken bag detector indicates that a part on CE 016 requires replacement; or, - CE 016 or any of its components are found during the inspection to need repair. Corrective actions shall include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for CE 016. The Permittee shall keep a record of the type and date of any corrective action taken for CE 016.
10.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect CE 016's components. The Permittee shall maintain a written record of these inspections.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: GP 003 Continuous Cookers and Control Equipment

Associated Items: CE 012 Cookers Venturi Scrubber

EU 011 Continuous Milling System

EU 012 Continuous Cooker No. 1

EU 013 Continuous Cooker No. 2

SV 012 Continuous Cookers/Milling System

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. 7007.3000	Total Particulate Matter: less than or equal to 2.0 lbs/hour using 3-hour Average
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 1.8 lbs/hour using 3-hour Average
4.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 1.0 lbs/hour using 3-hour Average
5.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.
6.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent.
7.0		CD	hdr	OPERATIONAL REQUIREMENTS
8.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. 7007.3000	The Permittee shall vent emissions from EU 012 and EU 013 to CE 012 at all times, EU 012 and EU 013 are in operation to meet applicable PM and PM10 limits. The Permittee shall operate and maintain CE 012 at all times that any emission unit controlled by CE 012 is in operation. The Permittee shall document periods of non-operation of the control equipment.
9.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS See CE 012 for additional Monitoring and Recordkeeping Requirements for CE 012.



COMPLIANCE PLAN **CD-01**

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: GP 004 Blood System (BS) Fabric Filters

Associated Items: CE 006 BS Bin C & E Fabric Filter (LT)

CE 014 BS Bin 9 & 10 Fabric Filter (LT)

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	OPERATIONAL REQUIREMENTS
2.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain CE 006 and CE 014 such that they each achieve an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency
3.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain CE 006 and CE 014 such that they each achieve an overall control efficiency for PM < 10 micron: greater than or equal to 99 percent control efficiency
4.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain CE 006 and CE 014 such that they each achieve an overall control efficiency for PM < 2.5 micron: greater than or equal to 99 percent collection efficiency
5.0		CD	hdr	MONITORING EQUIPMENT INSTALLATION REQUIREMENTS
6.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	Broken Bag Detector: The Permittee shall continue to operate broken bag detectors on CE 006 and CE 014.
7.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
8.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	Visible Emissions and Broken Bag Detector: The Permittee shall check the stack (SV 005) for CE 006 and CE 014 for any visible emissions and their broken bag detectors once each day of operation during daylight hours.
9.0		CD	Minn. 7007.0800, subp. 5	Recordkeeping of Visible Emissions and Broken Bag Detector for CE 006 and CE 014: The Permittee shall record the time and date of each visible emission inspection and broken bag detector reading, and whether or not any visible emissions were observed, and whether or not either of the broken bag detectors indicated that a filter (or filters) required replacement.
10.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - a broken bag detector indicates that a filter (or filters) require(s) replacement; or, - CE 006 or CE 014 or any of their components are found during the inspections to need repair. Corrective actions shall include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for CE 006 and CE 014. The Permittee shall keep a record of the type and date of any corrective action taken for CE 006 and CE 014.
11.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the components of CE 006 and CE 014. The Permittee shall maintain a written record of these inspections.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: GP 005 Protein Silo Fabric Filters

Associated Items: CE 010 Protein Silo #1 Fabric Filter (LT)

CE 011 Protein Silo #2 Fabric Filter (LT)

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	OPERATIONAL REQUIREMENTS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7011.0065, subp. 1(A); Minn. R. 7007.0800, subp. 14	The Permittee shall operate and maintain CE 010 and CE 011 such that they each achieve an overall control efficiency for Total Particulate Matter; greater than or equal to 99 percent control efficiency
3.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain CE 010 and CE 011 such that they each achieve an overall control efficiency for PM < 10 micron; greater than or equal to 99 percent control efficiency
4.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain CE 010 and CE 011 such that they each achieve an overall control efficiency for PM < 2.5 micron; greater than or equal to 99 percent control efficiency
5.0		CD	hdr	MONITORING EQUIPMENT INSTALLATION REQUIREMENTS
6.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	Broken Bag Detector: The Permittee shall continue to operate broken bag detectors on CE 010 and CE 011.
7.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
8.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	Visible Emissions and Broken Bag Detector: The Permittee shall check each fabric filter's stack (SV 009 and SV 010) for any visible emissions and their broken bag detectors once each day of operation during daylight hours.
9.0		CD	Minn. 7007.0800, subp. 5	Recordkeeping of Visible Emissions and Broken Bag Detector for CE 010 and CE 011: The Permittee shall record the time and date of each visible emission inspection and broken bag detector reading, and whether or not any visible emissions were observed, and whether or not either of the broken bag detectors indicated that a filter (or filters) required replacement.
10.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - a broken bag detector indicates that a filter (or filters) require(s) replacement; or, - CE 010 or CE 011 or any of their components are found during the inspections to need repair. Corrective actions shall include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for CE 010 and CE 011. The Permittee shall keep a record of the type and date of any corrective action taken for CE 010 and CE 011.
11.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the components of CE 010 and CE 011. The Permittee shall maintain a written record of these inspections.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 001 Boiler No. 1

Associated Items: GP 001 Combustion Equipment Subject to Facility-Wide SO₂ Limit

SV 001 Boiler No. 1

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 5.0 lbs/hour using 3-hour Average
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron: less than or equal to 3.3 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. R. 7011.0515, subp. 1	Total Particulate Matter: less than or equal to 0.40 lbs/million Btu heat input using 3-hour Rolling Average (maximum uncontrolled emissions from this unit are 0.11 lbs/million Btu heat input).
5.0		LIMIT	Minn. R. 7011.0515, subp. 1	Sulfur Dioxide: less than or equal to 2.0 lbs/million Btu heat input using 3-hour Rolling Average when burning residual fuel oil or refined animal fats & vegetable oils (maximum uncontrolled emissions from this unit are 1.59 lbs/million Btu heat input).
6.0		LIMIT	Minn. R. 7011.0515, subp. 2	Opacity: less than or equal to 20 percent except for one six-minute period per hour of not more than 60 percent opacity.
7.0		CD	Minn. R. 7007.0800, subps. 4 and 5	Fuel usage: limited to natural gas, residual oil, distillate oil, animal fat/vegetable oil, propane, biodiesel, and glycerin.
8.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
9.0		CD	hdr	See GP 001 for additional Monitoring and Recordkeeping requirements for EU 001.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 002 Ring/Blood Dryer

Associated Items: CE 001 Blood Process Venturi Scrubber

GP 001 Combustion Equipment Subject to Facility-Wide SO₂ Limit

SV 002 Ring/Blood Dryer

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 1.3 lbs/hour using 3-hour Average .
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron: less than or equal to 0.74 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. R. 7011.0610, subp. 1(A)(1)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.
5.0		LIMIT	Minn. R. 7011.0610, subp. 2(A)(2)	Sulfur Dioxide: less than or equal to 2.0 lbs/million Btu heat input using 3-hour Rolling Average when burning distillate fuel oil (maximum uncontrolled emissions from this unit are 0.51 lbs/million Btu heat input).
6.0		LIMIT	Minn. R. 7011.0610, subp. 1(A)(2)	Opacity: less than or equal to 20 percent except for one six-minute period per hour of not more than 60 percent opacity.
7.0		CD	Minn. R. 7007.8000, subp. 4 and 5	Fuel usage: limited to natural gas, distillate oil, animal fat/vegetable oil, propane, biodiesel, and glycerin.
8.0		CD	hdr	OPERATIONAL REQUIREMENTS
9.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall vent emissions from EU 002 to CE 001 at all times EU 002 is in operation to meet applicable PM, PM ₁₀ and PM _{2.5} limits. The Permittee shall operate and maintain CE 001 at all times that any emission unit controlled by CE 001 is in operation.
10.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
11.0		CD	hdr	See GP 001 for additional Monitoring and Recordkeeping requirements for EU 002.
12.0		CD	hdr	See CE 001 for additional Monitoring and Recordkeeping requirements for CE 001.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 003 Protein Recovery Facility (PRF)

Associated Items: CE 003 PRF Venturi Scrubber

SV 003 Protein Recovery Facility

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 1.0 lbs/hour using 3-hour Average .
3.0		LIMIT	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subps. 7A and 7M; Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron: less than or equal to 0.97 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735. The facility has showed compliance based on air dispersion modeling.
5.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent .
6.0		CD	hdr	OPERATIONAL REQUIREMENTS
7.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	Vent emissions from EU 003 to CE 003 at all times EU 003 is in operation to meet applicable PM and PM10 limits. The Permittee shall operate and maintain CE 003 at all times that any emission unit controlled by CE 003 is in operation.
8.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
9.0		CD	hdr	See CE 003 for Monitoring and Recordkeeping Requirements of CE 003.



COMPLIANCE PLAN CD-01

Facility Name: Sanlmax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 005 Blood Pneumatic Conveying System

Associated Items: CE 006 BS Bin C & E Fabric Filter (LT)

CE 014 BS Bin 9 & 10 Fabric Filter (LT)

SV 005 Blood Pneumatic Conveying System

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 0.0050 lbs/hour using 3-hour Average .
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron: less than or equal to 0.0050 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. The facility has showed compliance based on dispersion modeling.
5.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent .
6.0		CD	hdr	OPERATIONAL REQUIREMENTS
7.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall vent emissions from EU 005 to CE 006 or CE 014 at all times EU 005 is in operation to meet applicable PM, PM10 and PM2.5 limits. The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.
8.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
9.0		CD	hdr	See GP 004 for additional Monitoring and Recordkeeping requirements for CE 006 and CE 014.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 006 Boiler No. 2

Associated Items: GP 001 Combustion Equipment Subject to Facility-Wide SO2 Limit

SV 006 Boiler No. 2

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 0.13 lbs/hour using 3-hour Average
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron: less than or equal to 0.030 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. R. 7011.0515, subp. 1	Total Particulate Matter: less than or equal to 0.40 lbs/million Btu heat input using 3-hour Rolling Average (maximum uncontrolled emissions from this unit are 0.014 lbs/million Btu heat input).
5.0		LIMIT	Minn. R. 7011.0515, subp. 1	Sulfur Dioxide: less than or equal to 2.0 lbs/million Btu heat input using 3-hour Rolling Average when burning distillate fuel oil.
6.0		LIMIT	Minn. R. 7011.0515, subp. 2	Opacity: less than or equal to 20 percent except for one six-minute period per hour of not more than 60 percent opacity.
7.0		CD	hdr	OTHER LIMITS AND REQUIREMENTS
8.0		LIMIT	40 CFR Section 60.42c(d); 40 CFR Section 60.42c(d) and Minn. R. 7011.0515, subp. 1	Sulfur Content of Fuel: less than or equal to 0.50 percent by weight as certified by fuel supplier.
9.0		CD	Minn. R. 7007.0800, subp. 4 and 5	Fuel usage: limited to natural gas, distillate oil, animal fat/vegetable oil, propane, biodiesel, and glycerin.
10.0		CD	40 CFR Section 60.42c(f)	The SO2 emission limit applies at all times, including periods of startup, shutdown and malfunctions.
11.0		CD	hdr	MONITORING, RECORDKEEPING and REPORTING REQUIREMENTS
12.0		CD	40 CFR Section 60.44c(h)	Sulfur Content of Fuel: Obtain certification from fuel supplier to demonstrate compliance with SO2 limit. Certification from fuel supplier shall include name of the fuel supplier and a statement from the fuel supplier that the fuel oil complies with the specifications under the definition of distillate fuel oil in 40 CFR Section 60.41(c) and the sulfur content of the fuel oil following each fuel delivery.
13.0		CD	40 CFR Section 60.48c(g)	Recordkeeping: By the last day of each calendar month, the Permittee shall record the amount of fuel combusted in EU 006 boiler during the previous calendar month. These records shall consist of purchase records, receipts, or fuel meter readings.
14.0		CD	40 CFR Section 60.48c(i)	Recordkeeping: The Permittee shall maintain all records for a minimum of two years.
15.0		CD	40 CFR Sections 60.48c(c)	Reporting: The Permittee shall submit excess emissions reports quarterly if there are excess emissions by the 30th day of the third month following completion of the initial performance test, or semiannually if no excess emissions by the 30th day of the sixth month following completion of the initial performance test. Each subsequent quarterly or semiannual report shall be postmarked by the 30th day following the end of the reporting period.



MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST. PAUL, MN 55155-4194

Page 18 of 32

8 Jan, 2013 07:02

COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

16.0		CD	40 CFR Sections 60.48c(d), 60.48c(e)(11) and 60.48c(f)	Reporting: The Permittee shall submit reports on fuel oil sulfur limits. Reports shall be postmarked by the 30th day following the end of each reporting period. Reports shall include records of fuel supplier certification, and certified statement that the records represent all fuel combusted. The fuel supplier certification must include the name of the fuel supplier, a statement from the fuel supplier that the fuel oil complies with the specifications under the definition of distillate fuel oil in 40 CFR Section 60.41c and the sulfur content of the fuel oil.
17.0		CD	40 CFR Section 60.7(a)(4)	Notification: The Permittee shall provide notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, due no later than 60 days or as soon as practical before the change is commenced.
18.0		CD	hdr	See GP 001 for additional Monitoring and Recordkeeping requirements for EU 006.



COMPLIANCE PLAN **CD-01**

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 009 Protein Silo No. 1

Associated Items: CE 010 Protein Silo #1 Fabric Filter (LT)

SV 009 Protein Silo No. 1

	NC/ CA	Type	Citation	Requirement
1.0		CD	dr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 0.050 lbs/hour using 3-hour Average
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron: less than or equal to 0.050 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subps. 7A and 7M; Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	Total Particulate Matter: less than or equal to 0.10 lbs/hour using 3-hour Rolling Average. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.
5.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. The facility has showed compliance based on dispersion modelling.
6.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent.
7.0		CD	hdr	OPERATIONAL REQUIREMENTS
8.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall vent emissions from EU 009 to CE 010 at all times EU 009 is in operation to meet applicable PM, PM10 and PM2.5 limits. The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.
9.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
10.0		CD	hdr	See GP 005 for additional Monitoring and Recordkeeping Requirements of CE 010.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 010 Protein Silo No. 2

Associated Items: CE 011 Protein Silo #2 Fabric Filter (LT)

SV 010 Protein Silo No. 2

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron; less than or equal to 0.050 lbs/hour using 24-hour Rolling Average
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron; less than or equal to 0.050 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subps. 7A and 7M; Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	Total Particulate Matter: less than or equal to 0.10 lbs/hour using 3-hour Rolling Average. This is a state only requirement and is not enforceable by the Administrator or citizens under the Clean Air Act.
5.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. The facility has showed compliance based on dispersion modeling.
6.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent.
7.0		CD	hdr	OPERATIONAL REQUIREMENTS
8.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall vent emissions from EU 010 to CE 011 at all times EU 010 is in operation to meet applicable PM, PM10 and PM2.5 limits. The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.
9.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
10.0		CD	hdr	See GP 005 for additional Monitoring and Recordkeeping Requirements of CE 011.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 011 Continuous Milling System

Associated Items: CE 016 Particulate Capture Unit

GP 002 Continuous Milling System and Associated Control Equipment

GP 003 Continuous Cookers and Control Equipment

SV 012 Continuous Cookers/Milling System

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 0.28 lbs/hour using 3-hour Average
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron: less than or equal to 0.10 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subps. 7A and 7M; Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	Total Particulate Matter: less than 0.34 lbs/hour using 3-hour Average
5.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. The facility has showed compliance based on air dispersion modeling.
6.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent .
7.0		CD	hdr	OTHER REQUIREMENTS
8.0		CD	hdr	See GP 002 for Operational, Recordkeeping and Monitoring Requirements for the continuous milling system (EU 011) and its associated control equipment (CE 015 and CE 016).



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 014 Feather Pneumatic Conveying System

Associated Items: CE 009 Feather System Fab. Filter (LT)

SV 014 Feather Pneumatic Conveying System

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 0.010 lbs/hour using 3-hour Average .
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron: less than or equal to 0.010 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. The facility has showed compliance based on dispersion modeling.
5.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent .
6.0		CD	hdr	OPERATIONAL REQUIREMENTS
7.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall vent emissions from EU 014 to CE 009 at all times EU 014 is in operation to meet applicable PM, PM10 and PM2.5 limits. The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.
8.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
9.0		CD	hdr	See CE 009 for Monitoring and Recordkeeping Requirements for CE 009.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 020 PPF Cooking

Associated Items: CE 025 PPF Venturi Scrubber

SV 018 PPF Scrubber

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 10 micron: less than or equal to 1.4 lbs/hour using 3-hour Average .
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron: less than or equal to 0.77 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. The entire facility has demonstrate compliance with the ambient air quality standards based on computer dispersion modeling.
5.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent .
6.0		CD	hdr	OPERATIONAL REQUIREMENTS
7.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall vent emissions from EU 020 to CE 025 at all times EU 020 is in operation to meet applicable PM, PM10 and PM2.5 limits. The Permittee shall operate and maintain the scrubber at all times that any emission unit controlled by the scrubber is in operation.
8.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
9.0		CD	hdr	See CE 025 and CE 026 for Monitoring and Recordkeeping Requirements.



COMPLIANCE PLAN **CD-01**

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: EU 021 PPF Pressing

Associated Items: CE 025 PPF Venturi Scrubber

SV 018 PPF Scrubber

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. 7007.3000; To avoid violation of PM10 NAAQS under Minn. R. 7009.0080; Minn. R. 7007.0800, subps. 4 and 5	PM < 10 micron; less than or equal to 0.38 lbs/hour using 24-hour Rolling Average.
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0600, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron; less than or equal to 0.22 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. The entire facility has demonstrate compliance with the ambient air quality standards based on computer dispersion modeling.
5.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent.
6.0		CD	hdr	OPERATIONAL REQUIREMENTS
7.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall vent emissions from EU 021 to CE 025 at all times EU 021 is in operation to meet applicable PM, PM10 and PM2.5 limits. The Permittee shall operate and maintain the scrubber at all times that any emission unit controlled by the scrubber is in operation.
8.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
9.0		CD	hdr	See CE 025 and CE 026 for Monitoring and Recordkeeping Requirements.



COMPLIANCE PLAN **CD-01**

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 008

Subject Item: EU 022 PPF Milling

Associated Items: CE 025 PPF Venturi Scrubber

SV 018 PPF Scrubber

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	EMISSION LIMITS
2.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. 7007.3000; To avoid violation of PM10 NAAQS under Minn. R. 7009.0080; Minn. R. 7007.0800, subps. 4 and 5	PM < 10 micron: less than or equal to 0.14 lbs/hour using 24-hour Rolling Average .
3.0		LIMIT	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080	PM < 2.5 micron: less than or equal to 0.050 lbs/hour using 3-hour Average
4.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011. 0735. The entire facility has demonstrate compliance with the ambient air quality standards based on computer dispersion modeling.
5.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent .
6.0		CD	hdr	OPERATIONAL REQUIREMENTS
7.0		CD	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 and Minn. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall vent emissions from EU 022 to CE 025 at all times EU 022 is in operation to meet applicable PM, PM10 and PM2.5 limits. The Permittee shall operate and maintain the scrubber at all times that any emission unit controlled by the scrubber is in operation.
8.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
9.0		CD	hdr	See CE 025 and CE 026 for Monitoring and Recordkeeping Requirements.



COMPLIANCE PLAN CD-01

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: CE 001 Blood Process Venturi Scrubber

Associated Items: EU 002 Ring/Blood Dryer

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	OPERATIONAL REQUIREMENTS
2.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 90 percent control efficiency
3.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 90 percent control efficiency
4.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: less than or equal to 90 percent control efficiency
5.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
6.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14; Minn. R. 7017.2025, subp. 3	Pressure Drop: greater than or equal to 4.0 inches of water column and less than or equal to 6.0 inches of water column across CE 001.
7.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall read and record the pressure drop and liquid flow rate across CE 001, once each day of operation.
8.0		LIMIT	Minn. 7007.0800, subp. 4(B)	Liquid Flow Rate: greater than or equal to 48 gallons/minute through CE 001.
9.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	Recordkeeping of Pressure Drop and Liquid Flow Rate. The Permittee shall record the time and date of each pressure drop and liquid flow rate reading, whether or not any visible emissions were observed, and whether or not the observed pressure drop liquid flow rate were within the ranges specified in this permit.
10.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop and/or liquid flow rate are outside the required operating ranges; or - CE 001 or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop and/or liquid flow rate to within the permitted ranges and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the CE 001. The Permittee shall keep a record of the type and date of any corrective action taken for CE 001.
11.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.



COMPLIANCE PLAN CD-01

Facility Name: Sanlmax USA Inc

Permit Number: 03700070 - 006

Subject Item: CE 003 PRF Venturi Scrubber

Associated Items: EU 003 Protein Recovery Facility (PRF)

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	OPERATIONAL REQUIREMENTS
2.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 90 percent control efficiency
3.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 90 percent control efficiency
4.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 90 percent control efficiency
5.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
6.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14; Minn. R. 7017.2025, subp. 3	Pressure Drop: greater than or equal to 4.0 inches of water column and less than or equal to 6.0 inches of water column across CE 003.
7.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall read and record the pressure drop and liquid flow rate across CE 003, once each day of operation.
8.0		LIMIT	Minn. 7007.0800, subp. 4(B)	Liquid Flow Rate: greater than or equal to 16 gallons/minute through CE 003.
9.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	Recordkeeping of Pressure Drop and Liquid Flow Rate. The Permittee shall record the time and date of each pressure drop and liquid flow rate reading, whether or not any visible emissions were observed, and whether or not the observed pressure drop liquid flow rate were within the ranges specified in this permit.
10.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop and/or liquid flow rate are outside the required operating ranges; or - CE 003 or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop and/or liquid flow rate to within the permitted ranges and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the CE 003. The Permittee shall keep a record of the type and date of any corrective action taken for CE 003.
11.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.



COMPLIANCE PLAN **CD-01**

Facility Name: Sanlmax USA Inc

Permit Number: 03700070 - 006

Subject Item: CE 009 Feather System Fab. Filter (LT)

Associated Items: EU 014 Feather Pneumatic Conveying System

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	OPERATIONAL REQUIREMENTS
2.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency
3.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 99 percent control efficiency
4.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 99 percent control efficiency
5.0		CD	hdr	MONITORING EQUIPMENT INSTALLATION REQUIREMENTS
6.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000	Broken Bag Detector: The Permittee shall continue to operate a broken bag detector on CE 009.
7.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
8.0		CD	Minn. 7007.0800, subp. 4(B)	Visible Emissions and Broken Bag Detector: The Permittee shall check CE 009's stack (SV 014) for any visible emissions and its broken bag detector once each day of operation during daylight hours.
9.0		CD	Minn. 7007.0800, subp. 5	Recordkeeping of Visible Emissions and Broken Bag Detector for CE 009: The Permittee shall record the time and date of each visible emission inspection and broken bag detector reading, and whether or not any visible emissions were observed, and whether or not the broken bag detector indicated that a filter (or filters) required replacement.
10.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the broken bag detector indicates that a filter (or filters) require(s) replacement; or, - CE 009 or any of its components are found during the inspections to need repair. Corrective actions shall include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for CE 009. The Permittee shall keep a record of the type and date of any corrective action taken for CE 009.
11.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect CE 009's components. The Permittee shall maintain a written record of these inspections.



COMPLIANCE PLAN **CD-01**

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: **CE 012 Cookers Venturi Scrubber**

Associated Items: EU 012 Continuous Cooker No. 1

EU 013 Continuous Cooker No. 2

GP 003 Continuous Cookers and Control Equipment

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	OPERATIONAL REQUIREMENTS
2.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 90 percent control efficiency
3.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 90 percent control efficiency
4.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 90 percent control efficiency
5.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
6.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid classification as a major source under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subps. 4 and 5	Visible Emissions: The Permittee shall check the Scrubber stack (SV 012) for any visible emissions once each day of operation during daylight hours. The Permittee shall read and record the pressure drop and liquid flow rate across CE 012, once each day of operation.
7.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid classification as a major source under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subps. 4 and 5	Pressure Drop: greater than or equal to 4.0 inches of water column and less than or equal to 6.0 inches of water column across CE 012.
8.0		LIMIT	Minn. 7007.0800, subp. 4(B)	Liquid Flow Rate: greater than or equal to 65 gallons/minute through CE 012.
9.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid classification as a major source under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7007.0800, subps. 4 and 5	Recordkeeping of Visible Emissions, Pressure Drop and Liquid Flow Rate. The Permittee shall record the time and date of each pressure drop and liquid flow rate reading, whether or not any visible emissions were observed, and whether or not the observed pressure drop liquid flow rate were within the ranges specified in this permit.



COMPLIANCE PLAN **CD-01**

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

10.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop and/or liquid flow rate are outside the required operating ranges; or - CE 012 or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop and/or liquid flow rate to within the permitted ranges and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the CE 012. The Permittee shall keep a record of the type and date of any corrective action taken for CE 012.
11.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.



COMPLIANCE PLAN **CD-01**

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 006

Subject Item: CE 025 PPF Venturi Scrubber

Associated Items: EU 020 PPF Cooking

EU 021 PPF Pressing

EU 022 PPF Milling

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	OPERATIONAL REQUIREMENTS
2.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 90 percent control efficiency
3.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 90 percent control efficiency
4.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 90 percent control efficiency
5.0		CD	hdr	MONITORING AND RECORDKEEPING REQUIREMENTS
6.0		LIMIT	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14; Minn. R. 7017.2025, subp. 3	Pressure Drop: greater than or equal to 2.0 inches of water column and less than or equal to 9.0 inches of water column across CE 025.
7.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	The Permittee shall read and record the pressure drop and liquid flow rate across CE 025, once each day of operation.
8.0		LIMIT	<Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14	Liquid Flow Rate: greater than or equal to 60 gallons/minute through CE 025.
9.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5	Recordkeeping of Pressure Drop and Liquid Flow Rate. The Permittee shall record the time and date of each pressure drop and liquid flow rate reading, whether or not any visible emissions were observed, and whether or not the observed pressure drop liquid flow rate were within the ranges specified in this permit.



COMPLIANCE PLAN **CD-01**

Facility Name: Sanimax USA Inc

Permit Number: 03700070 - 008

10.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop and/or liquid flow rate are outside the required operating ranges; or - CE 025 or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop and/or liquid flow rate to within the permitted ranges and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the CE 025. The Permittee shall keep a record of the type and date of any corrective action taken for CE 025.
11.0		CD	Minn. R. 7007.0800, subps. 4, 5 and 14	Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

CD-02-R

**Compliance Certification for Title V Reissuance
Air Quality Permit Program**

Doc Type: Permit Application

1a) AQ Facility ID No.: 03700070 1b) AQ File No.: 578
2) Facility Name: Sanimax USA Inc

To complete this form, you will need the colored sheets labeled *Compliance Plan CD-01* and form *CD-01-R Compliance Plan -- Supplemental Information for Title V Reissuance*

3) Are you in compliance with all requirements listed in Forms CD-01 and CD-01-R?

☒ Yes

☐ No – Briefly describe the non-compliance below (include when and how the non-compliance was determined).

4) Are there any other air quality requirements that apply to your facility that have not been identified in the Part 70 Reissuance Application?

☒ No – Done with this form. Return this page with your application.

☐ Yes – List them below.

5) Are you in compliance with all requirements listed in question 4?

☐ Yes – Done with this form. Return this page with your application.

☐ No – Briefly describe the non-compliance below (include when and how the non-compliance was determined).



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

CD-02-R

**Compliance Certification for Title V Reissuance
Air Quality Permit Program**

Doc Type: Permit Application

1a) AQ Facility ID No.: 03700070 1b) AQ File No.: 578
2) Facility Name: Sanimax USA Inc

To complete this form, you will need the colored sheets labeled *Compliance Plan CD-01* and form *CD-01-R Compliance Plan -- Supplemental Information for Title V Reissuance*

3) Are you in compliance with all requirements listed in Forms CD-01 and CD-01-R?

☒ Yes

☐ No – Briefly describe the non-compliance below (include when and how the non-compliance was determined).

4) Are there any other air quality requirements that apply to your facility that have not been identified in the Part 70 Reissuance Application?

☒ No – Done with this form. Return this page with your application.

☐ Yes – List them below.

5) Are you in compliance with all requirements listed in question 4?

☐ Yes – Done with this form. Return this page with your application.

☐ No – Briefly describe the non-compliance below (include when and how the non-compliance was determined).

Appendix B

Emission Calculations

Sanimax USA Inc
Facility PTE Summary

Emission Unit	Pollutant																			
	PM		PM ₁₀		PM _{2.5}		SO ₂		NOx		CO		VOC		CO ₂ e		Single HAP*		All HAPs	
	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)	(lb/hr)	(tons/yr)
EU001	5.81	25.46	5.00	21.89	3.25	14.26	80.07	Facility- Wide Limit	18.70	81.91	4.20	18.40	0.28	1.20	8,995	39,397	0.09	0.39	0.14	0.63
EU002	1.43	6.24	1.26	5.50	0.74	3.23	2.54		0.71	3.13	0.41	1.80	0.12	0.49	2,813	12,320	0.01	0.04	0.01	0.04
EU003	1.06	4.62	1.02	4.45	0.97	4.23	--		--	--	--	--	0.17	0.74	--	--	--	--	--	--
EU005	0.01	0.03	0.005	0.02	0.005	0.02	--		--	--	--	--	--	--	--	--	--	--	--	--
EU006	0.25	1.10	0.13	0.55	0.03	0.14	8.92		2.51	11.00	1.45	6.34	0.09	0.42	800	3,504	0.03	0.14	0.04	0.16
EU009	0.07	0.32	0.05	0.20	0.05	0.20	--		--	--	--	--	--	--	--	--	--	--	--	--
EU010	0.07	0.32	0.05	0.20	0.05	0.20	--		--	--	--	--	--	--	--	--	--	--	--	--
EU011	0.34	1.47	0.28	1.25	0.10	0.44	--		--	--	--	--	--	--	--	--	--	--	--	--
EU012	1.00	4.38	0.90	3.92	0.51	2.23	--		--	--	--	--	--	--	--	--	--	--	--	--
EU013	1.00	4.38	0.90	3.92	0.51	2.23	--		--	--	--	--	1.06	4.66	--	--	--	--	--	--
EU014	0.01	0.04	0.01	0.03	0.01	0.03	--		--	--	--	--	1.06	4.66	--	--	--	--	--	--
EU020	1.52	6.64	1.36	5.94	0.77	3.39	--		--	--	--	--	0.16	0.71	--	--	--	--	--	--
EU021	0.43	1.88	0.38	1.68	0.22	0.96	--		--	--	--	--	0.05	0.20	--	--	--	--	--	--
EU022	0.17	0.72	0.14	0.61	0.05	0.22	--		--	--	--	--	-	-	--	--	--	--	--	--
Total	13.15	57.60	11.45	50.16	7.25	31.77	91.52	240	21.93	96.03	6.06	26.54	2.99	13.08	12,607	55,220	0.13	0.57	0.19	0.84
TSD PTE**	--	52	--	45	--	29	--	240	--	96	--	27	--	13	--	53,045	--	0.57	--	0.60

*Largest single HAP is hexane from natural gas combustion.

**Discrepancies were noted when comparing the emission calculations with the facility PTE in the Technical Support Document (TSD). MPCA-provided PTE in the TSD were about 5 tpy lower for PM and PM10 and 3 tpy lower for PM2.5. The calculations included in this spreadsheet for each EU are correct. Other minor discrepancies were found due to rounding.

Sanimax													
Blood/Ring Dryer - EU002 (SV002)													
Combustion Emissions Calculations (does not include process emissions)													
All Emission Factors from AP-42, unless otherwise noted.													
Capacity:		5 MMBtu/hr											
#2 Fuel Oil:		0.03571301 1000 gal/hr			#2 Fuel Oil Heating Value:			0.140005 MMBtu/gal		S (No. 2):		0.5 %	
Natural Gas:		0.004901961 MMcf/hr			Natural Gas Heating Value:			1020 MMBtu/cf					
Item	Pollutant	#2 Oil Emission Factor (lb/1000 gal)	Natural Gas Emission Factor (lb/MMcf)	#2 Oil Hourly Potential (lb/hr)	Natural Gas Hourly Potential (lb/hr)	Worst Case Fuel Hourly Potential (lb/hr)	Unrestricted Potential (tpy)	Limited Potential (tpy)					
EU002 Dryer Fuels: Distillate (#2) Oil, Natural Gas	Acenaphthene	2.11E-05	1.80E-06	7.54E-07	8.82E-09	7.54E-07	3.30E-06	3.30E-06					
	Acenaphthylene	2.53E-07	1.80E-06	9.04E-09	8.82E-09	9.04E-09	3.96E-08	3.96E-08					
	Anthracene	1.22E-06	2.40E-06	4.36E-08	1.18E-08	4.36E-08	1.91E-07	1.91E-07					
	Benz(a)anthracene	4.01E-06	1.80E-06	1.43E-07	8.82E-09	1.43E-07	6.27E-07	6.27E-07					
	Benzene	2.14E-04	2.10E-03	7.64E-06	1.03E-05	1.03E-05	4.51E-05	4.51E-05					
	Benzo(a)pyrene		1.20E-06		5.88E-09	5.88E-09	2.58E-08	2.58E-08					
	Benzo(b)fluoranthene	1.48E-06	1.80E-06	5.29E-08	8.82E-09	5.29E-08	2.32E-07	2.32E-07					
	Benzo(g,h,i)perylene	2.26E-06	1.20E-06	8.07E-08	5.88E-09	8.07E-08	3.54E-07	3.54E-07					
	Benzo(k)fluoranthene	1.48E-06	1.80E-06	5.29E-08	8.82E-09	5.29E-08	2.32E-07	2.32E-07					
	Chrysene	2.38E-06	1.80E-06	8.50E-08	8.82E-09	8.50E-08	3.72E-07	3.72E-07					
	Dibenzo(a,h)anthracene	1.67E-06	1.20E-03	5.96E-08	5.88E-06	5.88E-06	2.58E-05	2.58E-05					
	Dichlorobenzene		1.20E-03		5.88E-06	5.88E-06	2.58E-05	2.58E-05					
	7,12-Dimethylbenz(a)anthracene		1.60E-05		7.84E-08	7.84E-08	3.44E-07	3.44E-07					
	Ethylbenzene	6.36E-05		2.27E-06		2.27E-06	9.95E-06	9.95E-06					
	Fluoranthene	4.84E-06	3.00E-06	1.73E-07	1.47E-08	1.73E-07	7.57E-07	7.57E-07					
	Fluorene	4.47E-06	2.80E-06	1.60E-07	1.37E-08	1.60E-07	6.99E-07	6.99E-07					
	Formaldehyde	3.30E-02	7.50E-02	1.18E-03	3.68E-04	1.18E-03	5.16E-03	5.16E-03					
	Hexane		1.80E+00	0.00E+00	8.82E-03	8.82E-03	3.86E-02	3.86E-02					
	Indeno(1,2,3-cd)pyrene	2.14E-06	1.80E-06	7.64E-08	8.82E-09	7.64E-08	3.35E-07	3.35E-07					
	2-Methylnaphthalene		2.40E-05		1.18E-07	1.18E-07	5.15E-07	5.15E-07					
	3-Methylchloranthrene		1.80E-06		8.82E-09	8.82E-09	3.86E-08	3.86E-08					
	Naphthalene	1.13E-03	6.10E-04	4.04E-05	2.99E-06	4.04E-05	1.77E-04	1.77E-04					
	Phenanthrene	1.05E-05	1.70E-05	3.75E-07	8.33E-08	3.75E-07	1.64E-06	1.64E-06					
	Phosphorus												
	Pyrene	4.25E-06		1.52E-07		1.52E-07	6.65E-07	6.65E-07					
	Toluene	6.20E-03	5.00E-06		2.45E-08	2.45E-08	1.07E-07	1.07E-07					
	1,1,1-Trichloroethane	2.36E-04		8.43E-06		8.43E-06	3.69E-05	3.69E-05					
	Xylenes	1.09E-04		3.89E-06		3.89E-06	1.71E-05	1.71E-05					
	Antimony compounds		5.25E-03		2.57E-05	2.57E-05	1.13E-04	1.13E-04					
	Arsenic compounds	5.60E-10	2.00E-04	2.00E-11	9.80E-07	9.80E-07	4.29E-06	4.29E-06					
	Beryllium compounds	4.20E-10	1.20E-05	1.50E-11	5.88E-08	5.88E-08	2.58E-07	2.58E-07					
	Cadmium compounds	4.20E-10	1.10E-03	1.50E-11	5.39E-06	5.39E-06	2.36E-05	2.36E-05					
	Chromium compounds	4.20E-10	1.40E-03	1.50E-11	6.86E-06	6.86E-06	3.01E-05	3.01E-05					
	Cobalt compounds		8.40E-05	0.00E+00	4.12E-07	4.12E-07	1.80E-06	1.80E-06					
	Manganese compounds	8.40E-10	3.80E-04	3.00E-11	1.86E-06	1.86E-06	8.16E-06	8.16E-06					
	Mercury compounds	4.20E-10	2.60E-04	1.50E-11	1.27E-06	1.27E-06	5.58E-06	5.58E-06					
	Nickel compounds	4.20E-10	2.10E-03	1.50E-11	1.03E-05	1.03E-05	4.51E-05	4.51E-05					
	Selenium compounds	2.10E-09	2.40E-05	7.50E-11	1.18E-07	1.18E-07	5.15E-07	5.15E-07					
	HAPs					0.01	0.04	0.04					
	Lead	1.26E-09	5.00E-04	4.50E-11	2.45E-06	2.45E-06	1.07E-05	1.07E-05					
	Total PM	2.00E+00	7.60E+00	7.14E-02	3.73E-02	0.07	0.31	0.31					
	PM ₁₀	1.00E+00	7.60E+00	3.57E-02	3.73E-02	0.04	0.16	0.16					
	PM _{2.5}	2.50E-01	7.60E+00	8.93E-03	3.73E-02	0.01	0.04	0.04					
	SO ₂	7.10E+01	6.00E-01	2.54E+00	2.94E-03	2.54	11.11	11.11					
	NO _x	2.00E+01	1.00E+02	7.14E-01	4.90E-01	0.71	3.13	3.13					
	VOC	3.40E-01	5.50E+00	1.21E-02	2.70E-02	0.03	0.12	0.12					
	CO	5.00E+00	8.40E+01	1.79E-01	4.12E-01	0.41	1.80	1.80					
	CO ₂	2.23E+04	1.20E+05	7.96E+02	5.88E+02	796.40	3,488	3,488					
	CH ₄	5.20E-02	2.30E+00	1.86E-03	1.13E-02	0.01	0.05	0.05					
	N ₂ O	2.60E-01	2.20E+00	9.29E-03	1.08E-02	0.01	0.05	0.05					
	GHG			7.96E+02	5.88E+02	796.42	3,488	3,488					
	CO ₂ e			7.99E+02	5.92E+02	799.98	3,504	3,504					

Sanimax												
Boiler No. 2 - EU006 (SV006)												
Combustion Emissions Calculations												
All Emission Factors from AP-42, unless otherwise noted.												
Capacity:	17.58	MMBtu/hr										
#2 Fuel Oil:	0.125566944	1000 gal/hr			#2 Fuel Oil Heating Value:		0.140005	MMBtu/gal		S (No. 2):	0.5	%
Natural Gas:	0.017235294	MMcf/hr			Natural Gas Heating Value:		1020	MMBtu/cf				
Item	Pollutant	Natural Gas Emission Factor (lb/MMcf)	#2 Oil Emission Factor (lb/1000 gal)	Natural Gas Hourly Potential (lb/hr)	#2 Oil Hourly Potential (lb/hr)	Worst Case Emissions (lb/hr)	Unrestricted Potential (tpy)	Limited Potential (tpy)				
EU006 Boiler 2 Fuels: Distillate (#2) Fuel Oil, Natural Gas	Acenaphthene	1.80E-06	2.11E-05	3.10E-08	2.65E-06	2.65E-06	1.16E-05	1.16E-05				
	Acenaphthylene	1.80E-06	2.53E-07	3.10E-08	3.18E-08	3.18E-08	1.39E-07	1.39E-07				
	Anthracene	2.40E-06	1.22E-06	4.14E-08	1.53E-07	1.53E-07	6.71E-07	6.71E-07				
	benz(a)anthracene	1.80E-06	4.01E-06	3.10E-08	5.04E-07	5.04E-07	2.21E-06	2.21E-06				
	Benzene	2.10E-03	2.14E-04	3.62E-05	2.69E-05	3.62E-05	1.59E-04	1.59E-04				
	Benzo(a)pyrene	1.20E-06		2.07E-08		2.07E-08	9.06E-08	9.06E-08				
	Benzo(b)fluoranthene	1.80E-06	1.48E-06	3.10E-08	1.86E-07	1.86E-07	8.14E-07	8.14E-07				
	Benzo(g,h,i)perylene	1.20E-06	2.26E-06	2.07E-08	2.84E-07	2.84E-07	1.24E-06	1.24E-06				
	Benzo(k)fluoranthene	1.80E-06	1.48E-06	3.10E-08	1.86E-07	1.86E-07	8.14E-07	8.14E-07				
	Chrysene	1.80E-06	2.38E-06	3.10E-08	2.99E-07	2.99E-07	1.31E-06	1.31E-06				
	Dibenzo(a,h)anthracene	1.20E-03	1.67E-06	2.07E-05	2.10E-07	2.07E-05	9.06E-05	9.06E-05				
	Dichlorobenzene	1.20E-03		2.07E-05		2.07E-05	9.06E-05	9.06E-05				
	7,12-Dimethylbenz(a)anthracene	1.60E-05		2.76E-07		2.76E-07	1.21E-06	1.21E-06				
	Ethylbenzene		6.36E-05		7.99E-06	7.99E-06	3.50E-05	3.50E-05				
	Fluoranthene	3.00E-06	4.84E-06	5.17E-08	6.08E-07	6.08E-07	2.66E-06	2.66E-06				
	Fluorene	2.80E-06	4.47E-06	4.83E-08	5.61E-07	5.61E-07	2.46E-06	2.46E-06				
	Formaldehyde	7.50E-02	3.30E-02	1.29E-03	4.14E-03	4.14E-03	1.81E-02	1.81E-02				
	Hexane	1.80E+00		3.10E-02		3.10E-02	1.36E-01	1.36E-01				
	Indendo(1,2,3-cd)pyrene	1.80E-06	2.14E-06	3.10E-08	2.69E-07	2.69E-07	1.18E-06	1.18E-06				
	2-Methylnaphthalene	2.40E-05		4.14E-07		4.14E-07	1.81E-06	1.81E-06				
	3-Methylchloranthrene	1.80E-06		3.10E-08		3.10E-08	1.36E-07	1.36E-07				
	Naphthalene	6.10E-04	1.13E-03	1.05E-05	1.42E-04	1.42E-04	6.21E-04	6.21E-04				
	Phenanthrene	1.70E-05	1.05E-05	2.93E-07	1.32E-06	1.32E-06	5.77E-06	5.77E-06				
	Phosphorus											
	Pyrene	5.00E-06	4.25E-06	8.62E-08	5.34E-07	5.34E-07	2.34E-06	2.34E-06				
	Toluene	3.40E-03	6.20E-03	5.86E-05	7.79E-04	7.79E-04	3.41E-03	3.41E-03				
	1,1,1-Trichloroethane		2.36E-04		2.96E-05	2.96E-05	1.30E-04	1.30E-04				
	Xylenes		1.09E-04		1.37E-05	1.37E-05	5.99E-05	5.99E-05				
	Antimony compounds	5.25E-03		9.05E-05	0.00E+00	9.05E-05	3.96E-04	3.96E-04				
	Arsenic compounds	2.00E-04	5.60E-10	3.45E-06	7.03E-11	3.45E-06	1.51E-05	1.51E-05				
	Beryllium compounds	1.20E-05	4.20E-10	2.07E-07	5.27E-11	2.07E-07	9.06E-07	9.06E-07				
	Cadmium compounds	1.10E-03	4.20E-10	1.90E-05	5.27E-11	1.90E-05	8.30E-05	8.30E-05				
	Chromium compounds	1.40E-03	4.20E-10	2.41E-05	5.27E-11	2.41E-05	1.06E-04	1.06E-04				
	Cobalt compounds	8.40E-05		1.45E-06		1.45E-06	6.34E-06	6.34E-06				
	Manganese compounds	3.80E-04	8.40E-10	6.55E-06	1.05E-10	6.55E-06	2.87E-05	2.87E-05				
	Mercury compounds	2.60E-04	4.20E-10	4.48E-06	5.27E-11	4.48E-06	1.96E-05	1.96E-05				
	Nickel compounds	2.10E-03	4.20E-10	3.62E-05	5.27E-11	3.62E-05	1.59E-04	1.59E-04				
	Selenium compounds	2.40E-05	2.10E-09	4.14E-07	2.64E-10	4.14E-07	1.81E-06	1.81E-06				
	HAPs					0.04	0.16	0.16				
	Lead	5.00E-04	1.26E-09	8.62E-06	1.58E-10	8.62E-06	3.77E-05	3.77E-05				
	Total PM	7.60E+00	2.00E+00	1.31E-01	2.51E-01	0.25	1.10	1.10				
	PM ₁₀	7.60E+00	1.00E+00	1.31E-01	1.26E-01	0.13	0.55	0.55				
	PM _{2.5}	7.60E+00	2.50E-01	1.31E-01	3.14E-02	0.03	0.14	0.14				
	SO ₂	6.00E-01	7.10E+01	1.03E-02	8.92E+00	8.92	39.05	39.05				
	NOx	1.00E+02	2.00E+01	1.72E+00	2.51E+00	2.51	11.00	11.00				
	VOC	5.50E+00	2.00E-01	9.48E-02	2.51E-02	0.09	0.42	0.42				
	CO	8.40E+01	5.00E+00	1.45E+00	6.28E-01	1.45	6.34	6.34				
	CO ₂	1.20E+05	2.23E+04	2.07E+03	2.80E+03	2,800	12,265	12,265				
	CH ₄	2.30E+00	5.20E-02	3.96E-02	6.53E-03	0.04	0.17	0.17				
	N ₂ O	2.20E+00	2.60E-01	3.79E-02	3.26E-02	0.04	0.17	0.17				
	GHG			2.07E+03	2.80E+03	2,800	12,265	12,265				
	CO ₂ e			2.08E+03	2.81E+03	2,813	12,320	12,320				

Sanimax
Blood/Ring Dryer - EU002 (SV002)
Process Emissions Calculations

Process Emissions: Blood Drying

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Controlled Emission Rates	
	Filterable	Condensable	Total		(lbs/hr)	(tons/yr)
PM ^[1]	0.89	0.46	1.35	2,000	1.35	5.93
PM₁₀ ^[2]	0.76	0.46	1.22		1.22	5.34
PM_{2.5} ^[3]	0.27	0.46	0.73		0.73	3.19
VOC ^[4]	NA	NA	0.09		0.09	0.39

^[1] PM filterable emission factor is calculated from PM/PM₁₀ ratio of 100/85 as no AP-42 factor is available. PM condensable is taken from AP-42 Table 9.5.3-2

^[2] PM₁₀ filterable is taken from AP-42 Table 9.5.3-2 PM₁₀ condensable is 100% of PM condensable emission factor

^[3] PM_{2.5} filterable is calculated from PM_{2.5}/PM₁₀ ratio of 30/85, taken from EPA PM calculator based on SCC code 30203801 (Animal/Poultry Rendering - General:Uncontrolled). PM_{2.5} condensable is 100% of PM condensable emission factor.

^[4] VOC emission factor from Air Pollutant Emission Inventory Report 2009

Sanimax
Protein Recovery Facility (PRF) - EU003 (SV003)
PM, PM₁₀ and PM_{2.5} Emissions Calculations

Drying

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Controlled Emission Rates	
	Filterable	Condensable	Total		(lbs/hr)	(tons/yr)
PM ^[1]	-	-	0.87	2,000	0.87	3.81
PM ₁₀ ^[2]	-	-	0.87		0.87	3.81
PM _{2.5} ^[2]	-	-	0.87		0.87	3.81
VOC ^[3]	NA	NA	0.085		0.09	0.37

^[1] Performance test data showing 0.87 lb PM per ton of feathers processed (Braun Intertec Report: Central Bi-Products, Redwood Falls, Minnesota, June 1995)

^[2] PM₁₀ and PM_{2.5} emission factors assumed 100% of PM emission factor

^[3] VOC emission factor from Air Pollutant Emission Inventory Report 2009

Cooking

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total				(lbs/hr)	(tons/yr)
PM ^[1]	0.56	0.24	0.80	2,000	0.80	90	0.08	0.35
PM ₁₀ ^[2]	0.48	0.24	0.72		0.72	90	0.07	0.31
PM _{2.5} ^[3]	0.17	0.24	0.41		0.41	90	0.04	0.18
VOC ^[4]	NA	NA	0.085		0.09	NA	0.09	0.37

^[1] PM filterable and condensable emission factors taken from AP-42 Table 9.13.3-2 for "Continuous Deep Fat Fryer - Other Snack Chips"

^[2] PM₁₀ filterable is calculated as 85% of PM filterable, taken from EPA PM calculator based on SCC code 30203803 (Animal/Poultry Rendering - Cooking:Uncontrolled). PM₁₀ condensable is 100% of PM condensable emission factor.

^[3] PM_{2.5} filterable is calculated as 30% of PM filterable, taken from EPA PM calculator based on SCC code 30203803 (Animal/Poultry Rendering - Cooking:Uncontrolled). PM_{2.5} condensable is 100% of PM condensable emission factor.

^[4] VOC emission factor from Air Pollutant Emission Inventory Report 2009

Conveying

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total				(lbs/hr)	(tons/yr)
PM ^[1]	-	-	0.72	2,000	0.72	90	0.07	0.32
PM ₁₀ ^[2]	-	-	0.46		0.46	90	0.05	0.20
PM _{2.5} ^[3]	-	-	0.46		0.46	90	0.05	0.20

^[1] PM emission factor taken from AP-42 Table 11.12-2 "Pneumatic Unloading of Cement to Elevated Storage Silo"

^[2] PM₁₀ emission factor taken from AP-42 Table 11.12-2 "Pneumatic Unloading of Cement to Elevated Storage Silo"

^[3] PM_{2.5} emissions factor is calculated as 100% of PM₁₀ as no AP-42 emission factor is available.

Milling

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total				(lbs/hr)	(tons/yr)
PM ^[1]	0.34	-	0.34	2,000	0.34	90	0.03	0.15
PM ₁₀ ^[2]	0.28	-	0.28		0.28	90	0.03	0.12
PM _{2.5} ^[3]	0.10	-	0.10		0.10	90	0.01	0.04

^[1] PM filterable emission factors taken from AP-42 Table 9.9.1-2 for "Hammermill - Cyclone Control" and assumes 80% cyclone control efficiency = 0.067/(1-0.8)

^[2] PM₁₀ filterable is calculated as 85% of PM filterable, taken from EPA PM calculator based on SCC code 30203801 (Animal/Poultry Rendering - General:Uncontrolled).

^[3] PM_{2.5} filterable is calculated as 30% of PM filterable, taken from EPA PM calculator based on SCC code 30203801 (Animal/Poultry Rendering - General:Uncontrolled).

Total Controlled PRF Emissions

Pollutant	Process Emission Rate (lbs/hr)	Maximum Unlimited (tons/yr)	Limited Potential (tons/yr)
PM	1.06	4.62	4.62
PM ₁₀	1.02	4.45	4.45
PM _{2.5}	0.97	4.23	4.23
VOC	0.17	0.74	0.74

Sanimax
Blood Pneumatic Conveying System - EU005 (SV005)
PM, PM₁₀ and PM_{2.5} Emissions Calculations

Conveying

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Air Flow (dscfm)	Emission Factor ^[1] (gr/dscf)	Controlled Emission Rates		Control Efficiency (%)	Requested Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total					(lbs/hr)	(tons/yr)			(lbs/hr)	(tons/yr)
PM ^[2]	-	-	0.72	2,000	0.72	240	0.002	0.004	0.018	99.4%	99%	0.007	0.032
PM ₁₀ ^[3]	-	-	0.46		0.46			0.004	0.018	99.1%	99%	0.005	0.020
PM _{2.5} ^[4]	-	-	0.46		0.46			0.004	0.018	99.1%	99%	0.005	0.020

^[1] See attached emission statement

^[2] PM emission factor taken from AP-42 Table 11.12-2 "Pneumatic Unloading of Cement to Elevated Storage Silo"

^[3] PM₁₀ emission factor taken from AP-42 Table 11.12-2 "Pneumatic Unloading of Cement to Elevated Storage Silo"

^[4] PM_{2.5} emissions factor is calculated as 100% of PM₁₀ as no AP-42 emission factor is available.

Sanimax
Protein Silos (EU009 & EU010)
PM, PM₁₀ and PM_{2.5} Emissions Calculations

Silo EU009 (SV009)

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Air Flow (dscfm)	Emission Factor ^[1] (gr/dscf)	Controlled Emission Rates		Control Efficiency (%)	Requested Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total					(lbs/hr)	(tons/yr)			(lbs/hr)	(tons/yr)
PM ^[2]	-	-	0.72	20,000	7.20	566	0.002	0.010	0.042	99.9%	99%	0.072	0.315
PM ₁₀ ^[3]	-	-	0.46		4.60			0.010	0.042	99.8%	99%	0.046	0.201
PM _{2.5} ^[4]	-	-	0.46		4.60			0.010	0.042	99.8%	99%	0.046	0.201

^[1] See attached emission statement

^[2] PM emission factor taken from AP-42 Table 11.12-2 "Pneumatic Unloading of Cement to Elevated Storage Silo"

^[3] PM₁₀ emission factor taken from AP-42 Table 11.12-2 "Pneumatic Unloading of Cement to Elevated Storage Silo"

^[4] PM_{2.5} emissions factor is calculated as 100% of PM₁₀ as no AP-42 emission factor is available.

Silo EU010 (SV010)

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Air Flow (dscfm)	Emission Factor ^[1] (gr/dscf)	Controlled Emission Rates		Control Efficiency (%)	Requested Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total					(lbs/hr)	(tons/yr)			(lbs/hr)	(tons/yr)
PM ^[2]	-	-	0.72	20,000	7.20	566	0.002	0.010	0.042	99.9%	99%	0.072	0.315
PM ₁₀ ^[3]	-	-	0.46		4.60			0.010	0.042	99.8%	99%	0.046	0.201
PM _{2.5} ^[4]	-	-	0.46		4.60			0.010	0.042	99.8%	99%	0.046	0.201

^[1] See attached emission statement

^[2] PM emission factor taken from AP-42 Table 11.12-2 "Pneumatic Unloading of Cement to Elevated Storage Silo"

^[3] PM₁₀ emission factor taken from AP-42 Table 11.12-2 "Pneumatic Unloading of Cement to Elevated Storage Silo"

^[4] PM_{2.5} emissions factor is calculated as 100% of PM₁₀ as no AP-42 emission factor is available.

Sanimax
Cooking Process - EU011, EU012 and EU013 (SV012)
PM, PM₁₀ and PM_{2.5} Emissions Calculations

Milling Process - EU011

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total				(lbs/hr)	(tons/yr)
PM ^[1]	0.34	-	0.34	20,000	3.35	90	0.34	1.47
PM ₁₀ ^[2]	0.28	-	0.28		2.85	90	0.28	1.25
PM _{2.5} ^[3]	0.10	-	0.10		1.01	90	0.10	0.44

^[1] PM filterable emission factors taken from AP-42 Table 9.9.1-2 for "Hammermill - Cyclone Control" and assumes 80% cyclone control efficiency = 0.067/(1-0.8)

^[2] PM₁₀ filterable is calculated as 85% of PM filterable, taken from EPA PM calculator based on SCC code 30203801 (Animal/Poultry Rendering - General:Uncontrolled).

^[3] PM_{2.5} filterable is calculated as 30% of PM filterable, taken from EPA PM calculator based on SCC code 30203801 (Animal/Poultry Rendering - General:Uncontrolled).

Cooker No. 1 - EU012

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total				(lbs/hr)	(tons/yr)
PM ^[1]	0.56	0.24	0.80	25,000	10.00	90	1.00	4.38
PM ₁₀ ^[2]	0.48	0.24	0.72		8.95	90	0.90	3.92
PM _{2.5} ^[3]	0.17	0.24	0.41		5.10	90	0.51	2.23
VOC ^[4]	NA	NA	0.085		1.06	NA	1.06	4.66

^[1] PM filterable and condensable emission factors taken from AP-42 Table 9.13.3-2 for "Continuous Deep Fat Fryer - Other Snack Chips"

^[2] PM₁₀ filterable is calculated as 85% of PM filterable, taken from EPA PM calculator based on SCC code 30203803 (Animal/Poultry Rendering - Cooking:Uncontrolled). PM₁₀ condensable is 100% of PM condensable emission factor

^[3] PM_{2.5} filterable is calculated as 30% of PM filterable, taken from EPA PM calculator based on SCC code 30203803 (Animal/Poultry Rendering - Cooking:Uncontrolled). PM_{2.5} condensable is 100% of PM condensable emission factor

^[4] VOC emission factor from MPCA PTE records for GP003, dated January 8, 2013

Cooker No. 2 - EU013

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total				(lbs/hr)	(tons/yr)
PM ^[1]	0.56	0.24	0.80	25,000	10.00	90	1.00	4.38
PM ₁₀ ^[2]	0.48	0.24	0.72		8.95	90	0.90	3.92
PM _{2.5} ^[3]	0.17	0.24	0.41		5.10	90	0.51	2.23
VOC ^[4]	NA	NA	0.085		1.06	NA	1.06	4.66

^[1] PM filterable and condensable emission factors taken from AP-42 Table 9.13.3-2 for "Continuous Deep Fat Fryer - Other Snack Chips"

^[2] PM₁₀ filterable is calculated as 85% of PM filterable, taken from EPA PM calculator based on SCC code 30203803 (Animal/Poultry Rendering - Cooking:Uncontrolled). PM₁₀ condensable is 100% of PM condensable emission factor

^[3] PM_{2.5} filterable is calculated as 30% of PM filterable, taken from EPA PM calculator based on SCC code 30203803 (Animal/Poultry Rendering - Cooking:Uncontrolled). PM_{2.5} condensable is 100% of PM condensable emission factor

^[4] VOC emission factor from MPCA PTE records for GP003, dated January 8, 2013

Total Controlled Cooking Process Emissions

Pollutant	Process Emission Rate (lbs/hr)	Maximum Unlimited (tons/yr)	Limited Potential (tons/yr)
PM	2.34	10.23	10.23
PM ₁₀	2.07	9.09	9.09
PM _{2.5}	1.12	4.91	4.91
VOIC	2.13	9.32	9.32

Sanimax
Feather Pneumatic Conveying System - EU014 (SV014)
PM, PM₁₀ and PM_{2.5} Emissions Calculations

Conveying

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Air Flow (dscfm)	Emission Factor ^[1] (gr/dscf)	Controlled Emission Rates		Control Efficiency (%)	Requested Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total					(lbs/hr)	(tons/yr)			(lbs/hr)	(tons/yr)
PM ^[2]	-	-	0.72	2,500	0.90	240	0.002	0.004	0.018	99.5%	99%	0.009	0.039
PM ₁₀ ^[3]	-	-	0.46		0.58			0.004	0.018	99.3%	99%	0.006	0.025
PM _{2.5} ^[4]	-	-	0.46		0.58			0.004	0.018	99.3%	99%	0.006	0.025

^[1] See attached emission statement

^[2] PM emission factor taken from AP-42 Table 11.12-2 "Pneumatic Unloading of Cement to Elevated Storage Silo"

^[3] PM₁₀ emission factor taken from AP-42 Table 11.12-2 "Pneumatic Unloading of Cement to Elevated Storage Silo"

^[4] PM_{2.5} emissions factor is calculated as 100% of PM₁₀ as no AP-42 emission factor is available.

Sanimax
PPF Process - EU020, EU021 and EU022 (SV018)

PPF Cooking Process - EU020

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total				(lbs/hr)	(tons/yr)
PM ^[1]	0.56	0.24	0.80	37,893	15.16	90	1.52	6.64
PM ₁₀ ^[2]	0.48	0.24	0.72		13.57	90	1.36	5.94
PM _{2.5} ^[3]	0.17	0.24	0.41		7.73	90	0.77	3.39
VOC ^[4]	-	-	0.09		1.61	90	0.16	0.71

^[1]PM filterable and condensable emission factors taken from AP-42 Table 9.13.3-2 for "Continuous Deep Fat Fryer - Other Snack Chips"

^[2] PM₁₀ filterable is calculated as 85% of PM filterable, taken from EPA PM calculator based on SCC code 30203803 (Animal/Poultry Rendering - Cooking:Uncontrolled). PM₁₀ condensable is 100% of PM condensable emission factor

^[3] PM_{2.5} filterable is calculated as 30% of PM filterable, taken from EPA PM calculator based on SCC code 30203803 (Animal/Poultry Rendering - Cooking:Uncontrolled). PM_{2.5} condensable is 100% of PM condensable emission factor

^[4]VOC emission factor taken from AP-42 Table 9.13.3-3 for "Continuous Deep Fat Fryer - Other Snack Chips"

PPF Pressing Process - EU021

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total				(lbs/hr)	(tons/yr)
PM ^[1]	0.56	0.24	0.80	10,717	4.29	90	0.43	1.88
PM ₁₀ ^[2]	0.48	0.24	0.72		3.84	90	0.38	1.68
PM _{2.5} ^[3]	0.17	0.24	0.41		2.19	90	0.22	0.96
VOC ^[4]	-	-	0.09		0.46	90	0.05	0.20

^[1]PM filterable and condensable emission factors taken from AP-42 Table 9.13.3-2 for "Continuous Deep Fat Fryer - Other Snack Chips"

^[2] PM₁₀ filterable is calculated as 85% of PM filterable, taken from EPA PM calculator based on SCC code 30203801 (Animal/Poultry Rendering - General:Uncontrolled). PM₁₀ condensable is 100% of PM condensable emission factor

^[3] PM_{2.5} filterable is calculated as 30% of PM filterable, taken from EPA PM calculator based on SCC code 30203801 (Animal/Poultry Rendering - General:Uncontrolled). PM_{2.5} condensable is 100% of PM condensable emission factor

^[4]VOC emission factor taken from AP-42 Table 9.13.3-3 for "Continuous Deep Fat Fryer - Other Snack Chips"

PPF Milling Process - EU022

Pollutant	Emission Factors (lb/ton)			Process Capacity (lbs/hr)	Uncontrolled Emission Rate (lbs/hr)	Control Efficiency (%)	Controlled Emission Rates	
	Filterable	Condensable	Total				(lbs/hr)	(tons/yr)
PM ^[1]	0.34	-	0.34	9,860	1.65	90	0.17	0.72
PM ₁₀ ^[2]	0.28	-	0.28		1.40	90	0.14	0.61
PM _{2.5} ^[3]	0.10	-	0.10		0.50	90	0.05	0.22

^[1]PM filterable emission factors taken from AP-42 Table 9.9.1-2 for "Hammermill - Cyclone Control" and assumes 80% cyclone control efficiency = 0.067/(1-0.8)

^[2] PM₁₀ filterable is calculated as 85% of PM filterable, taken from EPA PM calculator based on SCC code 30203801 (Animal/Poultry Rendering - General:Uncontrolled)

^[3] PM_{2.5} filterable is calculated as 30% of PM filterable, taken from EPA PM calculator based on SCC code 30203801 (Animal/Poultry Rendering - General:Uncontrolled)

Total Controlled PPF Process Emissions

Pollutant	Process Emission Rate	Maximum Unlimited	Limited Potential
	(lbs/hr)	(tons/yr)	(tons/yr)
PM	2.11	9.24	9.24
PM ₁₀	1.88	8.24	8.24
PM _{2.5}	1.04	4.56	4.56
VOC	0.21	0.90	0.90