

**Technical Support Document
For
Draft Air Emission Permit No. 04900001-104**

This technical support document (TSD) is intended for all parties interested in the draft permit and to meet the requirements that have been set forth by the federal and state regulations (40 CFR § 70.7(a)(5) and Minn. R. 7007.0850, subp. 1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the preliminary determination to issue the draft permit.

1. General information

1.1 Applicant and stationary source location:

Table 1. Applicant and source address

Applicant/Address	Stationary source/Address (SIC Code: 2076 - Vegetable Oil Mills, Except Corn, Cottonseed, and Soybean)
Archer Daniels Midland Co 126 LaGrange St Red Wing, Minnesota 55066	Archer Daniels Midland Co - Red Wing 126 LaGrange St Red Wing, MN 55066
Contact: Jeffrey Penman Phone: 651-267-3867	

1.2 Facility description

Archer Daniels Midland Co. (ADM or Permittee) owns and operates an oilseed crushing and vegetable oil refining facility in Red Wing, Minnesota. The facility consists of emission units for oilseed receiving, storage, processing, solvent extraction/recovery, meal processing, oil refining, and steam production. The facility receives various raw oilseeds and processes them in part using hexane to extract vegetable oil. The crude vegetable oil is separated from the hexane and is further refined, stored, loaded, and shipped. The remaining solids are processed into meal by de-solventizing, drying, and cooling. The meal is stored prior to shipping to customers for animal feed. The facility has to ability to process flaxseed, rapeseed, corn germ, soybeans, and some select non-rapeseed oilseed varieties. Combustion equipment consists of two boilers, an emergency generator, and two fire pump engines.

The facility emits particulate matter (PM), particulate matter less than 10 microns in size (PM₁₀), particulate matter less than 2.5 microns in size (PM_{2.5}), volatile organic compounds (VOC), sulfur dioxide (SO₂), carbon monoxide (CO), nitrogen oxides (NO_x) and hazardous air pollutants (HAPs). PM, PM₁₀ and PM_{2.5} emissions are emitted from the handling and processing of the seeds and meal and are controlled by fabric filters and cyclones. PM, PM₁₀, PM_{2.5}, SO₂, CO, NO_x, VOC, and HAPs are emitted from the boilers and engines. Hexane emissions (which are both VOC and HAP emissions) are released from the hexane storage, extraction, and recovery systems. Hexane is controlled by a mineral oil absorber/cold water condenser. The facility is a major source under federal New Source Review (NSR), the federal Operating Permit Program (40 CFR pt. 70), and federal National Emission Standards for Hazardous Air Pollutants (NESHAPs, 40 CFR pt. 63).

1.3 Description of the activities allowed by this permit action

The MPCA has a combined operating and construction permitting program under Minn. R. ch. 7007. Under that authority, this permit action authorizes construction.

This permit action is a Major Amendment that also incorporates a Minor amendment, and an Administrative Amendment. The Major Amendment includes construction related to process flow changes (EQUI 252, 253 and associated control equipment, stacks, and ducting), two baghouse replacements (TREA 10 and 29), the authorization of new raw materials for processing (new oilseeds in the Brassicaceae and the Cannabaceae families), a revision to the oilseed solvent loss factor, and corrected SO₂ potential to emit (PTE) related to corn germ processing. The Minor Amendment reauthorizes the use of soybeans as a raw material for processing and includes 40 CFR pt. 60 subp. DD for all equipment used for soybean processing. The Administrative Amendment includes corrections to requirements for TREA 13, TREA 14, TREA 18, TREA 25 and TREA 29.

1.4 Description of notifications and applications included in this action

Table 2. Notifications and applications included in this action

Date received	Application/notification type and description
07/13/2023	Major Amendment (IND20230001)
10/16/2023	Supplemental Information
01/10/2024	Supplemental Information
11/04/2022	Administrative Amendment (IND20220001)
11/05/2021	Minor Amendment (IND20210002)

1.5 Facility emissions:

Table 3. Title I emissions summary

Pollutant	Future potential emissions (tpy)	Baseline actual emissions** (tpy)	Emissions increase from the modification (tpy)	Limited emissions increase from the modification (tpy)	NSR/112(g) Significant thresholds for major sources (tpy)	NSR/ 112(g) review required? (yes/no)
PM	0.20	0.0083	0.19	0.19	25	no
PM ₁₀	0.78	0.032	0.75	0.75	15	no
PM _{2.5}	0.13	0.0055	0.13	0.13	10	no
NO _x	0	0	0	0	40	NA
SO ₂	0	0	0	0	40	NA
CO	0	0	0	0	100	NA
Ozone (VOC)	0	0	0	0	40	NA
Lead	0	0	0	0	0.6	NA
CO ₂ e*	0	0	0	0	75,000	NA

*Carbon dioxide equivalents as defined in Minn. R. 7007.0100.

**Baseline actual emissions as defined in 40 CFR § 52.21(b)(48).

Table 4. Facility classification

Classification	Major	Synthetic minor/area	Minor/area
PSD	X		
Part 70 Permit Program	X		
Part 63 NESHAP	X		

1.6 Changes to permit

The following changes to the permit are made through this permit action:

- Emission units that were omitted in error from the venting requirements for TREA 13, TREA 14, TREA 18, TREA 25 and TREA 29 in the previous permit (permit no. 04900001-103) have been added to the respective requirement as requested in the administrative amendment. These emission units are:
 - EQUI 14 from requirement 5.169.1
 - EQUI 58, 71, 411, and 412 from requirement 5.170.1
 - EQUI 97 from requirement 5.173.1
 - EQUI 410 from requirement 5.179.1
- Removed EQUI 36 language from permit, equipment was removed in a previous permit action.
- Added Periodic Inspection requirement under TREA 13, missing in error. Removed pressure drop language from Corrective Actions requirement because the pressure drop is not used for monitoring TREA 13.
- Language added to account for future process flow changes. EQUI 252 and EQUI 253 will be controlled by TREA 25 and vent to STRU 17 (previously EQUI 252 was controlled by TREA 15/STRU 15 and EQUI 253 was controlled by TREA 16/STRU 16).
- Dismantlement notification requirements added for TREA 15 and TREA 16
- TREA 25 description was corrected to Rail/Barge Loadout as the facility is not capable of barge receiving (originally listed as Rail/Barge Loadout/Barge Receiving).
- Added notification requirements for the commencement of barge loadout operations. Added hood certification requirements under TREA 25 for when use of EQUI 351 resumes.
- Updated requirements under EQUI 62 and 63 to allow for visual emission checks using Method 22 of 40 CFR pt. 60, Appendix A-7 if the rollup doors cannot be closed during loadout.
- Corrected citation for 5.169.14 in permit no. 04900001-103.
- Soybeans have been reintroduced as a raw material and the affected equipment is now subject to 40 CFR pt. 60 sub. DD requirements. The NSPS DD profile has been added to the permit for the following: EQUI 46, 49, 50, 61, 65, 80, 87, 89, 90, 91, 98, 99, 107, 108, 120, 353, 354, 355, 369, 370, 383, 384, 387, 393, 401.
- Added TREA 35 to permit with language allowing for the replacement of TREA 29. Added dismantlement conditions to TREA 29.
- Updated stack identification language at the individual requirements to use the generic name “filter stack” instead of the actual stack identification number per Permittee request.
- Revised the solvent loss factor at COMG 7 to 0.7 gal/ton for non-rapeseed Brassicaceae and Cannabaceae families per Permittee request.
- PTE emissions corrected to include SO₂ emissions from processing corn germ. Corrected EQUIs include the following: EQUI 67, 72, 101-106 and 330.
- Removed EQUI 87 from COMG 6 as it is not subject to IPER.
- TREA 10 (Flour Mill Dump Truck) was replaced by TREA 36. TREA 10 has been removed from the permit and TREA 36 has been added to the permit.
- Removed the following equipment from COMG 5: EQUI 46, 49, 50, 61, 65, 80, 89, 90, 91, 98, 99, 107, 108, 353, 354, 355, 370, 383, 384, 387, 393, 401. These EQUIs are now listed individually to make it clear that the Bulk Agricultural Rule only applies when these EQUIs are not subject to NSPS DD.
- Updated and corrected NSPS DDDDD Compliance Report due dates for EQUI 76 and 78.
- Updated COMG 7 Volatile Organic Compounds monthly compliance ratio calculation and recordkeeping requirements to include the processing of oilseeds that are not listed in 40 CFR Section 63.2872.
- Removed TREA 12 from permit, it has been removed from the facility.
- Removed EQUI 27 from the permit as it was removed from the facility 3/16/2023.

2. Regulatory and/or statutory basis

2.1 New source review (NSR)

The facility is an existing major source under New Source Review regulations. The permit does not change this status but does authorize minor modifications to barge loading operations equipment (EQUI 252, 253, and TREA 15, 16, and 25) and a baghouse replacement (TREA 29). Emission increases are less than the major modification thresholds under New Source Review as documented in Table 3 and discussed in Section 3 of this TSD.

2.2 Part 70 permit program

The facility is a major source under the Part 70 permit program.

2.3 New source performance standards (NSPS)

This facility is subject to 40 CFR pt. 60, subp. DD – Standards of Performance for Grain Handling Facilities (NSPS DD). Applicability is based on a grain elevator’s storage capacity and raw material types, which must exceed 1 million bushels for any grain storage elevator located at any wheat flour mill, wet corn mill, dry corn mill (human consumption), rice mill, or soybean oil extraction plant. The storage capacity of grain elevators at this facility is 1.22 million bushels and the facility is allowed to process soybeans; therefore, 40 CFR pt. 60, subp. DD does apply. However, NSPS DD only applies to equipment that was constructed between August 3, 1978 (the applicability date of the standard) and September 1982 (the date the Permittee previously stopped processing soybeans) and to any affected facility constructed or modified after 11/22/2021 (the date the Permittee resumed processing soybeans). NSPS DD does not apply to equipment that was constructed between September 1982 and 11/22/2021, the time which the Permittee was not subject to NSPS DD.

2.4 Compliance assurance monitoring (CAM)

There were no changes to the CAM plan during this permit action. Something of note, this permit action allows the control unit TREA 29 to be replaced by a new unit, TREA 35. This is a like-kind replacement, thus TREA 35 is subject to the same CAM regulations as TREA 29.

As noted in previous permit action, TREA 25 is not subject to CAM because there are no numeric emission limits venting to the control. This permit action allows for process flow changes which reroute emissions flow from EQUI 252 and 253 to TREA 25, since neither of these emissions units have numeric emissions limits, the same applies in this permit action. The only standards that apply to these emissions units are from the bulk agricultural rule, which sets opacity standards for uncaptured emissions. CAM applicability depends on the emissions of regulated air pollutants as defined in 40 CFR pt. 70, and opacity is not a regulated air pollutant. Additionally, there is not major source threshold that applies to opacity.

2.5 Regulatory overview

Table 5. Regulatory overview of units affected by the modification/permit amendment

Subject item*	Applicable regulations	Rationale
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Subject item*	Applicable regulations	Rationale
EQUI 46, 49, 50, 61, 65, 80, 87, 89, 90, 91, 98, 99, 107, 108, 120, 353, 354, 355, 369, 370, 383, 384, 387, 393, 401.	40 CFR 60 subp. DD	<p>Standards of Performance for Grain Elevators. Applicability criteria include:</p> <ul style="list-style-type: none"> • The facility is a grain storage elevator as defined by 40 CFR 60.302(f) and is permitted to process soybeans; • The affected facilities are each truck unloading station, grain dryer, and grain handling operations. <p>This applies when the facility processes soybeans. For all other materials the Dry Bulk Agricultural regulations apply.</p>
	Minn. R. 7011.1005, subp. 3(A)	<p>Standards of Performance for Dry Bulk Agricultural Commodity Facilities. Applicability criteria include:</p> <ul style="list-style-type: none"> • The facility unloads, handles, stores, grinds, and loads dry bulk commodities; • The facility is not subject to NSPS, subp. DD (except when processing soybeans); and • The facility is located in a city with a population of 7,500 or more and has an annual commodity throughput greater than 180,000 tons. <p>Therefore, ADM – Red Wind is in the “control required” category in Minn. R. 7011.1015. An opacity limit from the rule applies to uncaptured emissions from grain handling operations. This applies when the affected facilities are processing oilseed material other than soybeans.</p>
EQUI 351 – S-N Tramco Drag to Barge Loading	Minn. R. 7007.0800, subp. 2(A)	<p>Emission Limits and Standards. Hood certification requirements. EQUI 351 has been out of operation for many years. In its current configuration the facility is not able to demonstrate that the hood for TREA 25 can conform to the specifications of the industrial ventilation manual. Therefore, TREA 25 will require hood evaluation and certification when barge load out operations recommence.</p>
TREA 25 – Rail/Barge Loadout	Minn. R. 7007.0800, subp. 2(A) Minn. R. 7011.0072, subp. 2-4	<p>Emissions Limits and Standards. Hood certification requirements. EQUI 351 requires hood evaluation and certification before it is considered controlled by TREA 25 once barge load out activities recommence.</p>
TREA 29 – Flour Mill	Title I Condition: Avoid major modification under 40 CFR pt. 52	<p>Prevention of Significant Deterioration (PSD). Control efficiency and other operating parameter requirements to limit PM/PM₁₀/PM_{2.5} to avoid major modification designation under PSD. Limits reflect that all emission units controlled by TREA 29 are totally enclosed. The Permittee plans to replace TREA 29 with TREA 35. The permit specifies that a replacement fabric filter must meet TREA 29 requirements.</p>

Subject item*	Applicable regulations	Rationale
TREA 35 – Flour Mill	Title I Condition: Avoid major modification under 40 CFR pt. 52	Prevention of Significant Deterioration (PSD). Authorization to replace TREA 29 and associated stack (STRU 5) with TREA 35 and associated stack (STRU 65) and avoid major modification classification under PSD. TREA 35 will be located in a space near the existing TREA 25 and STRU 65 will vent upwards and must meet all TREA 29 requirements.
TREA 36 – Flour Mill Truck Dump	Minn. R. 7007.0800, subp. 2(A)	TREA 36 is a like-kind replacement for TREA 10. Emission Limits and Standards. Control efficiency, capture efficiency, and other operating parameter requirements to limit PM/PM ₁₀ /PM _{2.5} to ensure compliance with applicable requirements. Limits reflect that the control equipment has a hood. The permit specifies that a replacement fabric filter must meet TREA 36 requirements.

*Location of the requirement in the permit (e.g., EQUI 1, STRU 2, etc.).

3. Technical information

3.1 Calculations of potential to emit and emissions increase analysis

Attachment 1 to this TSD contains a summary of the PTE of the emissions units affected by this amendment as well as detailed spreadsheets and supporting information prepared by the MPCA and the Permittee.

Attachment 2 to this TSD contains the Title I net emissions increase calculations for the process flow modification to EQUI 252, 253, and TREA 25. These calculations demonstrate that emission increases are below the major modification thresholds, and this modification is not a major modification for PSD.

ADM—Red Wing emissions calculations have been updated to include SO₂ emissions produced during corn germ processing for EQUI 67, 72, 101-106, and 330. The SO₂ emissions were calculated using emission factors determined using stack testing data from the ADM – Lubbock Testing Facility in 2003. The emission factors were based on the maximum stack test result and then it was doubled to be conservative. The expellers (EQUI 67, 101-106, and 303) SO₂ emission factor is 0.0246 pounds per not, and the pellet cooler (EQUI 72) SO₂ emission factor is 0.009 pounds per ton. The expellers are all restricted to a throughput of 62.5 tons per hour which makes their PTE limited lower than their PTE uncontrolled. The Permittee only recently became aware of these emissions and are not the result of a change or modification, this is a correction to existing PTE only. See Attachment 4 for stack test and email from the Permittee explaining these emissions.

Emission increases resulting from the planned process flow changes involving EQUI 252 and 253 were calculated using the past-actual-to-future-potential method. Baseline actuals for PM, PM₁₀, and PM_{2.5} were calculated using the average throughput rate in tons per year over a 24 month period (years 2021-2022) as required by 40 CFR § 52.21(b)(48)(ii)(e). Control equipment was accounted for in the calculation of baseline actuals emissions changes resulting from the modifications to EQUI 252 and 253 process flow as allowed by Minn. R. 7007.1200, subp. 2. Emissions from the proposed change are not significant under NSR because the regulated pollutants emitted (PM, PM₁₀, and PM_{2.5}) from EQUI 252 and 253 are below the thresholds.

3.2 New raw material and solvent loss factor for oil seeds

This permit authorizes ADM—Red Wing to begin processing new species of oilseed from the Brassicaceae family and hempseed from the Cannabaceae family (the facility currently processes Brassica Napus from the Brassicaceae family). The new species of oilseeds include, but are not limited to: Brassica Carinata, Camelina Sativa, and Thiaspi Arvense. Brassica Napus and Brassica Carinata each meet the definition of “rapeseed”

and are subject to 40 CFR 63 subp. GGGG; however, Camelina Sativa and Thiaspi Arvense do not meet the definition of rapeseed and are not subject to this subpart. The “non-rapeseed” oilseeds are very similar to Brassica Napus and are processed in the same manner as rapeseeds, thus air pollutant emissions are not expected to change. PM, PM₁₀, PM_{2.5} emissions from processing and handling of seeds where emissions are controlled by fabric filters and cyclones and hexane emissions released during the hexane storage, extraction, and recovery processes are controlled by a mineral oil absorber/cold water condenser. Since Brassica Napus and Brassica Carinata meet the definition of rapeseed, the solvent loss factor for these seeds is listed on Table 1 of 40 CFR §63.2840. Oilseeds not subject to 40 CFR 63 subp. GGGG will use the solvent loss factor 0.7 gallons per ton. The compliance method referenced in Permit No. 04900001-103 under requirement 5.4.7 has been revised to include the new solvent loss factor for non-rapeseed to determine monthly VOC compliance for COMG 7.

3.3 Monitoring

In accordance with the Clean Air Act, it is the responsibility of the owner or operator of a facility to have sufficient knowledge of the facility to certify that the facility is in compliance with all applicable requirements.

In evaluating the monitoring included in the permit, the MPCA considered the following:

- The likelihood of the facility violating the applicable requirements.
- Whether add-on controls are necessary to meet the emission limits.
- The variability of emissions over time.
- The type of monitoring, process, maintenance, or control equipment data already available for the emission unit.
- The technical and economic feasibility of possible periodic monitoring methods.
- The kind of monitoring found on similar units elsewhere.

The table below summarizes the monitoring requirements associated with this amendment.

Table 6. Monitoring

Subject item*	Requirement (rule basis)	What is the monitoring	Why is this monitoring adequate?
EQUI 46, 49, 50, 61, 65, 80, 87, 89, 90, 91, 98, 99, 107, 108, 353, 354, 355, 370, 383, 384, 387, 393, and 401.	Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions Opacity <= 0 percent opacity from process emissions. Opacity <= 0 percent opacity from grain handling operation fugitive emissions. [40 CFR 60.301, 40 CFR 60.302(b)(1)-(2) & (c)(2), & Minn. R. 7011.1005, subp. 2]	See monitoring associated with TREA 14, 18, and 29 (TREA 35 after replacement)	These emission units vent to a fabric filter for particulate matter control. There have been no changes to the fabric filter. Based on PTE calculations and operation of control equipment the Permittee is able to demonstrate compliance with the grains per dry standard cubic foot and opacity. This rule is only applicable when the Permittee processes grain as defined by 40 CFR 60.301(a) (i.e. soybeans).

Subject item*	Requirement (rule basis)	What is the monitoring	Why is this monitoring adequate?
	<p>Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling</p> <p>Opacity <= 10 percent opacity from the control equipment stack.</p> <p>[Minn. R. 7011.1005, subp. 3(A)& (D)]</p>	<p>See monitoring associated with TREA 14, 18, and 29 (TREA 35 after replacement)</p>	<p>These emission units vent to a fabric filter for particulate matter control. There have been no changes to the fabric filter. This is only applicable when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ).</p>
EQUI 62 – Truck Meal Loadout Drag Conveyor	<p>Opacity <= 10 percent opacity from meal loadout fugitive (uncaptured) emissions. [Minn. R. 7011.1005, subp. 3(B)]</p>	<p>Daily visual emission checks if roll up doors cannot be closed</p>	<p>The truck loadout building has a roll-up door at the South side of the building and an opening on the North side. The South door is required to be closed during truck meal loadout to reduce draft through the building during loadout, so any uncaptured emissions will occur only at the North opening of the building. Daily VE checks will ensure compliance with the opacity limit. If any visible emissions are seen, then corrective actions must be taken until the visible emissions are eliminated. If the roll up door cannot be completely shut due to an equipment malfunction, daily visible emissions checks while loading is occurring will ensure compliance with the opacity limit. If any visible emissions are seen, then corrective actions must be taken until the visible emissions are eliminated.</p>
EQUI 63 – Traveling Enclosed Belt Conveyor/Rail Loadout	<p>Opacity <= 5 percent from railcar loading stations fugitive (uncaptured) emissions. [Minn. R. 7011.1005, subp. 3(A)]</p>	<p>Daily visual emission checks if roll up doors cannot be closed</p>	<p>Rail loading occurs in a building with two rollup doors that should be in down position during rail loading and vents to a fabric filter control device. If the roll up doors cannot be completely shut due to an equipment malfunction, daily visible emissions checks while loading is occurring will ensure compliance with the opacity limit. If any visible emissions are seen, then corrective actions must be taken until the visible emissions are eliminated.</p>
EQUI 120—Truck Dump Drag Conveyor 2	<p>Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions.</p> <p>Opacity <= 0 percent opacity from process emissions</p> <p>[40 CFR 60.301, 40 CFR 60.302(b)(1)-(2) & Minn. R. 7011.1005, subp. 2]</p>	<p>See monitoring associated with TREA 36</p>	<p>EQUI 120 vents to a fabric filter for particulate matter control. Based on PTE calculations and operation of control equipment the Permittee is able to demonstrate compliance with the grains per dry standard cubic foot and opacity limits. . This rule is only applicable when the Permittee processes grain as defined by 40 CFR 60.301(a) (i.e. soybeans).</p>

Subject item*	Requirement (rule basis)	What is the monitoring	Why is this monitoring adequate?
	Opacity <= 5 percent opacity from truck unloading fugitive emissions. [40 CFR 60.301(h), 40 CFR 60.302(c)(1) & Minn. R. 7011.1005, subp. 2]	Daily visible emissions checks at the downwind door of the truck unloading building. See additional monitoring associated with TREA 36	Permittee is able to demonstrate compliance with the opacity limit. The truck unloading building has two roll up door at two sides of the building that are open when unloading occurs. Uncaptured emissions will occur at the downwind door of the building. Based on PTE calculations and operation of control equipment the Daily visible emissions checks at the downwind door will ensure compliance with the opacity limit. If any visible emissions are seen, then corrective actions must be taken until the visible emissions are eliminated. This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans).
	Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]	See monitoring associated with TREA 36	EQUI 120 vents to a fabric filter for particulate matter control. This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ).
	Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from truck unloading. [Minn. R. 7011.1005, subp. 3(A)]	Daily visible emissions checks at the downwind door of the truck unloading building, recordkeeping, corrective actions	The truck unloading building has two roll up doors at two sides of the building that are open when unloading occurs. Uncaptured emissions will occur at the downwind door of the building. Daily visible emission checks at the downwind door will ensure compliance with the opacity limit. If any visible emissions are seen, then corrective must be taken until the visible emissions are eliminated. This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ).
EQUI 351 – S-N Tramco Drag to Barge Loading	Opacity <= 20 percent opacity from ship or barge loading stations fugitive (uncaptured) emissions, except that during trimming or topping off, when normal loading procedures cannot be used, no opacity standard applies. [Minn. R. 7011.1005, subp. 3(C)]	Daily visible emissions checks	Uncaptured emissions will occur at the drop location of meal into the barge. Daily visible emissions checks while loading is occurring ensure compliance with opacity limit. If any visible emissions are seen, then corrective actions must be taken until the visible emissions are eliminated. EQUI 351 is not currently in use. When barge loading recommences, hood evaluation and certification requirements will take effect.

Subject item*	Requirement (rule basis)	What is the monitoring	Why is this monitoring adequate?
EQUI 369—Column Dryer with Screen Airs	Opacity <= 0 percent opacity from a column dryer with a column plate perforation exceeding 2.4 mm (0.094 inch) diameter. [40 CFR 60.302(a)(1) & Minn. R. 7011.1005, subp. 2]	See monitoring associated with TREA 30	EQUI 369 vents to a cyclone used for particulate matter control. There have been no changes to the cyclone. Based on PTE calculations and operation of control equipment, the Permittee is able to demonstrate compliance with the opacity limit. This rule is only applicable when the Permittee processes grain as defined by 40 CFR 60.301(a) (i.e. soybeans).
TREA 25— Rail/Barge Loadout	Particulate Matter >= 80 percent capture efficiency PM < 10 micron >= 80 percent capture efficiency PM < 2.5 micron >= 80 percent capture efficiency [Minn. R. 7007.0800, subp. 2(A)]	Hood certification and evaluation, annual hood evaluation	EQUI 351 vents to TREA 25 for particulate matter control. EQUI 351 is currently not in use. The hood does not currently meet the standards of the Industrial Ventilation Manual and will need to be evaluated and certified when use of EQUI 351 resumes. When certified, the hood must meet the standards of the Industrial Ventilation Manual, so a minimum of 80% capture efficiency can be assumed. The facility must take measurements annually that demonstrate that the hood parameters evaluated during the hood evaluation continue to be met. The ongoing evaluations will demonstrate that the hood continues to achieve 80% capture efficiency.
TREA 35— Flour Mill	Control efficiency for Particulate Matter >= 99 percent; Control efficiency for PM ₁₀ >= 93 percent; Control efficiency for PM _{2.5} >= 93 percent; Pressure Drop >= 0.5 and <= 8.0 inches of water. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000] Collection efficiency for Particulate Matter >= 80 percent. [Minn. R. 7011.1005, subp. 3(E)]	Periodic inspections, daily pressure drop monitoring, daily visible emissions checks, operation and maintenance, corrective actions	TREA 35 is a like-kind replacement for TREA 29. TREA 35 is an Other PSEU so is subject to a daily monitoring requirement. Daily visible emissions checks and pressured drop checks, along with inspection, operation, and maintenance requirements, ensure that the control equipment is operating properly and the control/collection efficiencies are being achieved.

Subject item*	Requirement (rule basis)	What is the monitoring	Why is this monitoring adequate?
TREA 36 – Flour Mill Truck Dump	Control efficiency for Particulate Matter ≥ 99 percent; Control efficiency for PM ₁₀ ≥ 93 percent; Control efficiency for PM _{2.5} ≥ 93 percent; Pressure Drop ≥ 0.5 and ≤ 8.0 inches of water. [Minn. R. 7007.0800, subp. 2(A)] Collection efficiency for Particulate Matter ≥ 80 percent. [Minn. R. 7011.1005, subp. 3(E)]	Periodic inspections, pressure drop monitoring, daily visible emissions checks, operation and maintenance, corrective actions	TREA 36 is a like-kind replacement for TREA 10. Daily visible emissions checks (and pressured drop checks during inclement weather), along with inspection, operation, and maintenance requirements ensure that the control equipment is operating properly and the control/collection efficiencies are being achieved.
	Capture efficiency for Particulate Matter ≥ 80 percent; Capture efficiency for PM ₁₀ ≥ 80 percent; Capture efficiency for PM _{2.5} ≥ 80 percent. [Minn. R. 7007.0800, subp. 2(A)]	Hood evaluation and certification, annual evaluation	TREA 36 is a like-kind replacement for TREA 10. The hood has been evaluated and is certified to meet the standards of the Industrial Ventilation Manual, so a minimum of 80% capture efficiency can be assumed. The facility must take measurements annually that demonstrate that the hood parameters evaluated during the hood evaluation continue to be met. The ongoing evaluations will demonstrate that the hood continues to achieve 80% capture efficiency.

*Location of the requirement in the permit (e.g., EQUI 1, STRU 2, etc.).

3.4 Insignificant activities

Archer Daniels Midland Co - Red Wing has several operations which are classified as insignificant activities under the MPCA's permitting rules. These are listed in Appendix A to the permit. No changes were made to the insignificant activities as part of this amendment.

3.5 Environmental Justice

The Minnesota Pollution Control Agency's (MPCA) mission is to protect and improve our environment and enhance human health, and the agency is committed to ensuring that pollution does not have a disproportionate impact on any group of people. The MPCA defines environmental justice as the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. The impacts of pollution vary across Minnesota, and historical inequities have exposed some populations such as people of color, low-income households, and people with underlying health issues to greater health impacts from pollution.

Permits are an important tool used to protect the environment and people in Minnesota. The permitting process is a critical opportunity to identify activities and pollutants that pose the greatest risk to neighborhoods of environmental concern, and to evaluate potential pollution reduction efforts. Permit actions also allow for community involvement in an accessible and meaningful manner. This will allow the MPCA and the facilities to understand and address community concerns and establish or enhance relationships with the surrounding community members.

As a part of this permit action, there was enhanced community outreach to inform and involve community members early and often in the process.

3.6 Permit organization

This permit meets the MPCA Tempo Guidance for ordering and grouping of requirements as well as the use of permit appendices.

3.7 Comments received

This section will be completed after the referenced review periods

Public Notice Period: [start date] – [end date]

EPA Review Period: [start date] – [end date]

4. Permit fee assessment

Attachment 3 to this TSD contains the MPCA's assessment of Application and Additional Points used to determine the permit application fee for this permit action as required by Minn. R. 7002.0019. The permit action includes three permit applications which were received after the effective date of the rule (July 1, 2009). The action includes a review of 40 CFR pt. 60, subp. DD for which additional points apply.

5. Conclusion

Based on the information provided by Archer Daniels Midland Co - Red Wing the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 04900001-104 and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff members on permit team: Kara Leadbetter (permit engineer)
Rachel Fossum (permit supervisor and peer reviewer)
Marin Morrell (enforcement)
Curtis Stock (stack testing)
Joe Handtmann (data coordinator)
Beckie Olsen (permit writing assistant)
Laurie O'Brien (administrative support)

Tempo Activities: Administrative Amendment (IND20220001), Major Amendment (IND20230001), Minor Amendment (IND20210002), Notif of Replace of Controls (IND20090001)

Attachments: 1. PTE summary and emissions increase calculation spreadsheets
2. Subject item inventory and requirements report
3. Points calculator
4. SO₂ corn germ emissions

Attachment 1 – PTE summary and emissions increase calculation spreadsheets



Alternate Format

GI-07 Spreadsheet

Facility Emissions Summary
Air Quality Permit Program
Doc Type: Permit Application

1a) AQ Facility ID number: 4900001 1b) Agency Interest ID number: 1685
2) Facility name: Archer Daniels Midland Co - Red Wing

You may use and submit this spreadsheet in place of Form GI-07. Follow the instructions for Form GI-07 to complete this spreadsheet. This spreadsheet can be copied into a tab for your emissions spreadsheet and must be submitted on a CD with your application. If you need to provide emissions information for more emissions units, add more sets of columns (3a through 3f) to the right as needed in the Emissions by Source Table. If you need to provide information for more pollutants, add rows as needed.

Emissions by Source Table

3a) Delta ID number: 3b) Tempo SI ID No.: <u>EQUI 252</u>					3a) Delta ID number: 3b) Tempo SI ID No.: <u>EQUI 253</u>					3a) Delta ID number: 3b) Tempo SI ID No.: <u>EQUI 67</u>							
3c)		3e) Potential			3f)	3c)		3e) Potential			3f)	3c)		3e) Potential			3f)
Pollutant Name	CAS #	lbs per Hr	tpy un-restricted	tpy limited	Actual tpy	Pollutant Name	CAS #	lbs per Hr	tpy un-restricted	tpy limited	Actual tpy	Pollutant Name	CAS #	lbs per Hr	tpy un-restricted	tpy limited	Actual tpy
PM		0.02	10.02	0.10		PM		0.02	10.02	0.10		PM		0.37	8.02	0.77	
PM10		0.09	5.58	0.39		PM10		0.09	5.58	0.39		PM10		0.20	4.47	0.43	
PM2.5		0.02	0.95	0.07		PM2.5		0.02	0.95	0.07		PM2.5		0.03	0.76	0.07	
												SO2		0.74	3.23	1.55	

5) Application is being submitted on a compact disc (CD) or flash drive, and the editable calculation spreadsheet(s) are included on the CD or Application is being submitted on paper, and editable calculation spreadsheet(s) are included on an enclosed CD or flash drive.



Alternate Format

GI-07 Spreadsheet

Facility Emissions Summary
Air Quality Permit Program
Doc Type: Permit Application

1a) AQ Facility ID number: 4900001 1b) Agency Interest ID number: 1685
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Emissions by Source Table

3a) Delta ID number:					3a) Delta ID number:					3a) Delta ID number:							
3b) Tempo SI ID No.: EQUI 72					3b) Tempo SI ID No.: EQUI 101					3b) Tempo SI ID No.: EQUI 102							
3c) Pollutant Name	3d) CAS #	3e) Potential			3f) Actual tpy	3c) Pollutant Name	3d) CAS #	3e) Potential			3f) Actual tpy	3c) Pollutant Name	3d) CAS #	3e) Potential			3f) Actual tpy
		lbs per Hr	tpy un-restricted	tpy limited				lbs per Hr	tpy un-restricted	tpy limited				lbs per Hr	tpy un-restricted	tpy limited	
PM	14.40	315.36	63.07		PM	0.37	8.02	0.77		PM	0.10	2.27	0.06				
PM10	7.20	157.68	31.54		PM10	0.20	4.47	0.43		PM10	0.06	1.27	0.03				
PM2.5	7.20	157.68	31.54		PM2.5	0.03	0.76	0.07		PM2.5	0.01	0.22	0.01				
SO2	0.36	1.57	1.57		SO2	0.74	3.23	1.55		SO2	0.21	0.92	0.12				

5) Application is being submitted on a compact disc (CD) or flash drive, and the editable calculation spreadsheet(s) are included on the CD or
 Application is being submitted on paper, and editable calculation spreadsheet(s) are included on an enclosed CD or flash drive.

1a) AQ Facility ID number: 4900001 1b) Agency Interest ID number: 1685
 2) Facility name: Archer Daniels Midland Co - Red Wing

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Emissions by Source Table

3a) Delta ID number:					3a) Delta ID number:					3a) Delta ID number:							
3b) Tempo SI ID No.:					3b) Tempo SI ID No.:					3b) Tempo SI ID No.:							
EQUI 103					EQUI 104					EQUI 105							
3c)	3d)	3e) Potential			3f)	3c)	3d)	3e) Potential			3f)	3c)	3d)	3e) Potential			3f)
Pollutant Name	CAS #	lbs per Hr	tpy un-restricted	tpy limited	Actual tpy	Pollutant Name	CAS #	lbs per Hr	tpy un-restricted	tpy limited	Actual tpy	Pollutant Name	CAS #	lbs per Hr	tpy un-restricted	tpy limited	Actual tpy
PM		0.10	2.27	0.06		PM		0.10	2.27	0.06		PM		0.10	2.27	0.06	
PM10		0.06	1.27	0.03		PM10		0.06	1.27	0.03		PM10		0.06	1.27	0.03	
PM2.5		0.01	0.22	0.01		PM2.5		0.01	0.22	0.01		PM2.5		0.01	0.22	0.01	
SO2		0.21	0.92	0.12		SO2		0.21	0.92	0.12		SO2		0.21	0.92	0.12	

5) Application is being submitted on a compact disc (CD) or flash drive, and the editable calculation spreadsheet(s) are included on the CD or flash
 Application is being submitted on paper, and editable calculation spreadsheet(s) are included on an enclosed CD or flash drive.

1a) AQ Facility ID number: 4900001 1b) Agency Interest ID number: 1685
 2) Facility name: Archer Daniels Midland Co - Red Wing

You may use and submit this spreadsheet in place of Form GI-07. Follow the instructions for Form GI-07 to complete this spreadsheet. This spreadsheet can be copied into a tab for your emissions spreadsheet and must be submitted on a CD with your application. If you need to provide emissions information for more emissions units, add more sets of columns (3a through 3f) to the right as needed in the Emissions by Source Table. If you need to provide information for more pollutants, add rows as needed.

Emissions by Source Table

3a) Delta ID number:		3b) Tempo SI ID No.: <u>EQUI 106</u>						3a) Delta ID number:		3b) Tempo SI ID No.: <u>EQUI 330</u>					
3c) Pollutant Name	3d) CAS #	3e) Potential			3f) Actual tpy	3c) Pollutant Name	3d) CAS #	3e) Potential			3f) Actual tpy				
		lbs per Hr	tpy un-restricted	tpy limited				lbs per Hr	tpy un-restricted	tpy limited					
PM		0.10	2.27	0.06		PM		0.37	8.02	0.77					
PM10		0.06	1.27	0.03		PM10		0.20	4.47	0.43					
PM2.5		0.01	0.22	0.01		PM2.5		0.03	0.76	0.07					
SO2		0.21	0.92	0.12		SO2		0.74	3.23	1.55					

Emissions Summary Table

4a) Pollutant Name	4b) Potential (lbs/hr)	4c) Potential (tpy)		4d) Actual
		Unrestricted	Limited	tons/year
PM	16.06	370.80	65.89	
PM10	8.28	188.58	33.78	
PM2.5	7.38	162.95	31.92	
SO2	3.62	15.85	6.85	

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**ADM Red Wing
40 CFR 60.302(b) Compliance Demonstration**

The purpose of this tab is to demonstrate compliance with the NSPS DD 40 CFR 60.302(b) limits for PM and opacity. PTE calculations using AP-42 and permitted control efficiencies show emissions are below the limit of 0.01 gr/dscf.

STRU ^{1,2,3}	TREA ⁴	EQUI with Requirements under NSPS DD	Controlled PTE (lb/hr)	Airflow (cfm)	gr/dscf
2	36	120	0.48	8,400	0.0067
4	14	46	0.04	15,000	0.0003
4	14	49	0.04	15,000	0.0003
4	14	87	0.04	15,000	0.0003
4	14	370	0.04	15,000	0.0003
4	14	393	0.04	15,000	0.0003
4	14	401	0.04	15,000	0.0003
5	29	61	0.02	20,000	0.0001
5	29	65	0.04	20,000	0.0002
5	29	80	0.04	20,000	0.0002
5	29	89	0.04	20,000	0.0002
5	29	90	0.04	20,000	0.0002
5	29	91	0.04	20,000	0.0002
5	29	353	0.04	20,000	0.0002
5	29	354	0.04	20,000	0.0002
5	29	355	0.04	20,000	0.0002
5	29	387	0.04	20,000	0.0002
8	18	50	0.76	15,000	0.0059
8	18	98	0.76	15,000	0.0059
8	18	99	0.76	15,000	0.0059
8	18	107	0.76	15,000	0.0059
8	18	108	0.76	15,000	0.0059
8	18	383	0.76	15,000	0.0059
8	18	384	0.76	15,000	0.0059

1. STRU 2 airflow comes from the 2023 hood evaluation and submitted on CR-02, and rounded down to account for dry standard cubic feet, the dust collector capacity is rated for 10,000 cfm (email from Jeffrey Penman on 12/11/2023).

2. STRU 4 airflow is based on our investigation of freezing in TREA 14 causing on-going high pressure drop readings during subzero weather.

I measured the airflow to be about 15,000 dscf, we used this number to properly size the steam coil we installed as the corrective action. TREA 14 rated capacity is 18,000 cfm (email from Jeffrey Penman 12/11/2023).

3. STRU 5 and 8 airflows use design flow rate(cfm) from Tempo.

4. TREA 29 is to be replaced by TREA 35

5. Total Facility emissions provided by Jeffrey Penman 12/4/23

Total Facility Emissions for PM⁵

Facility Emission Source			Equipment Identification	PM	Maximum Production Rate	Emission Factor	Factor Source Reference #	Uncontrolled Emission Rate	Uncontrolled PTE	Capture Efficiency	Pollution Control Efficiency	Controlled PTE	Hourly Pot ¹		
EQUI ID	TREA ID	STRU ID	Unit Name		(units/hr)	(lb/units)		(lb/hr)	(ton/yr)	%	(%)	(ton/yr)	(lbs/hr)		
9	14	4	Truck Dump Drag Conveyor 1	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
11	13	9	#6 Flaker	x	15	tons/hr	0.0074	lb/ton	13	0.11	0.49	100%	80%	0.10	0.0222
13	13	9	Flake Bulk-Flow Feed Screw Conveyor	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
14	13	9	Conveyor to Extractor (Raw Flake Bulk Flow)	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
15	13	9	Flake Cross Screw Conveyor	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
17	13	9	Basement Cake Drag Conveyor	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
18	20	13	Horizontal Meal Drag Conveyor	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
19	20	13	Sifter Feed Screw Conveyor	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
20	20	13	Static Sifter #1	x	18.75	tons/hr	1.7	lb/ton	2	31.88	139.61	100%	99%	1.40	0.3188
21	20	13	Static Sifter #2	x	18.75	tons/hr	1.7	lb/ton	2	31.88	139.61	100%	99%	1.40	0.3188
24	14	4	Harvestore Feed Conveyor	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
27	20	13	L-Path by Ext for Spilled Meal	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
30	25	17	S-N 24" Screw Conveyor to River	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
31	21	14	Pellet Mill 600 HP	x	30	tons/hr	2.10	lb/ton	15	62.85	275.28	100%	80%	55.06	12.5700
32	21	14	Pellet Mill E 250 HP	x	7	tons/hr	2.10	lb/ton	15	14.67	64.23	100%	80%	12.85	2.9330
33	21	14	Pellet Mill W 250 HP	x	7	tons/hr	2.10	lb/ton	15	14.67	64.23	100%	80%	12.85	2.9330
34	29	5	Incline Drag to Tanks 151 and 152	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
37	25	17	Rail Cross Conveyor	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
38	25	17	Rail Pit Discharge Conveyor	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
39	20	13	Under Bins Conveyor to Loadout	x	37.5	tons/hr	0.27	lb/ton	14	10.13	44.35	100%	99%	0.44	0.1013
42	12	18	Harvestore Discharge Conveyor	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
43	12	18	Harvestore Discharge Conveyor(inclined)	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
44	12	18	Harvestore Discharge Elevator Leg	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
46	14	4	Inside Silo Elevator Leg	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
47	11	3	N-S Rail Belt Conveyor	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
48	29	5	Screw Conveyor to Bins 1-6	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
49	14	4	Dryer Feed Screw Conveyor	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
50	18	8	Seed Day Bin	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
53	18	8	Flaker Feed Conveyor	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
54	13	9	Flaker Collect Conveyor	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
55	20	13	Final Meal Elevator Leg	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
57	20	13	Pellet Elevator Leg	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
58	14	4	Elevator Leg to Harvestore	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
59	20	13	Drag Conveyor to Inside Bins	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
60	25	17	L-Path Conveyor Under Bins	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229

375		63	North Fire Pump	x	2.09	mmbtu/hr	0.31	lb/mmbtu	16	0.65	2.83	100%	0%	2.83	0.6464
376		63	South Fire Pump	x	2.09	mmbtu/hr	0.31	lb/mmbtu	16	0.65	2.83	100%	0%	2.83	0.6464
378	13	9	Canola Overflow Discharge Conveyor	x	18.75	tons/hr	0.061	lb/ton	12	1.14	5.01	100%	80%	1.00	0.2288
379	19	12	Spent Flake Bulk Flow	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	80%	2.00	0.4575
380	19	12	DTDC Discharge Conveyor	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	80%	2.00	0.4575
381	20	13	Incline Conveyor to Final Meal Leg	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	80%	2.00	0.4575
382	18	8	#1 Conditioner Feed Screw	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
383	18	8	#2 Conditioner Feed Screw	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
384	18	8	Conditioner Rotex Feed Screw Conveyor	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
385	13	9	Flake Bulk Flow Discharge Conveyor #2	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
386	21	14	1st Mixer Screw to 600HP Pellet Mill	x	30	tons/hr	2.10	lb/ton	15	62.85	275.28	100%	80%	55.06	12.5700
387	29	5	Bin 22 Discharge Conveyor	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
388	19	12	DTDC Feed Conveyor	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	80%	2.00	0.4575
389	19	12	Extraction Plug Screw	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
390	21	14	Feed Screw to 600HP Pellet Mill	x	30	tons/hr	2.10	lb/ton	15	62.85	275.28	100%	80%	55.06	12.5700
391	13	9	Flake Bulkflow Discharge #1	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	80%	3.34	0.7625
392	13	9	Flake Discharge Overflow Bulkflow	x	18.75	tons/hr	0.061	lb/ton	12	1.14	5.01	100%	80%	1.00	0.2288
393	14	4	Grain Dryer Discharge Screw E & W	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
396	21	14	Pellet Cooler Feed Screw	x	40	tons/hr	1.8	lb/ton	15	72.00	315.36	100%	80%	63.07	14.4000
397	21	14	Pellet Mill 250HP East Feed Screw	x	7	tons/hr	2.10	lb/ton	15	14.67	64.23	100%	80%	12.85	2.9330
398	11	3	Rail Leg Discharge Screw Conveyor	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	0%	17.63	4.0260
399	21	14	Pellet Mill 250HP West Feed Screw	x	7	tons/hr	2.10	lb/ton	15	14.67	64.23	100%	80%	12.85	2.9330
400	14	4	Process Silo Belt Conveyor	x	62.5	tons/hr	0.061	lb/ton	12	3.81	16.70	100%	99%	0.17	0.0381
401	14	4	Process Silo Rotex Feed Screw Conveyor	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
402	18	8	Feed Screw, Anderson #1	x	8.5	tons/hr	0.061	lb/ton	12	0.52	2.27	100%	80%	0.45	0.1037
403	18	8	Feed Screw, Anderson #2	x	8.5	tons/hr	0.061	lb/ton	12	0.52	2.27	100%	80%	0.45	0.1037
404	18	8	Feed Screw, Anderson #3	x	8.5	tons/hr	0.061	lb/ton	12	0.52	2.27	100%	80%	0.45	0.1037
405	18	8	Feed Screw, Anderson #4	x	8.5	tons/hr	0.061	lb/ton	12	0.52	2.27	100%	80%	0.45	0.1037
406	18	8	Feed Screw, Anderson #5	x	8.5	tons/hr	0.061	lb/ton	12	0.52	2.27	100%	80%	0.45	0.1037
407	18	8	Feed Screw, Krupp #2	x	30	tons/hr	0.061	lb/ton	12	1.83	8.02	100%	80%	1.60	0.3660
408	18	8	Feed Screw, Krupp #3	x	30	tons/hr	0.061	lb/ton	12	1.83	8.02	100%	80%	1.60	0.3660
409	21	14	Pellet Cooler Discharge Screw	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	80%	2.00	0.4575
410	29	5	Top Vents - Flour Mill Elevator Silos	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
411	14	4	Top Vents - Inside/Outside Meal Bins/Harvestore	x	37.5	tons/hr	0.061	lb/ton	12	2.29	10.02	100%	99%	0.10	0.0229
412	14	4	Top Vents - Process Elevator Silos	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403
413			Top Vents - Tank 1000	x	66	tons/hr	0.025	lb/ton	11	1.65	7.23	100%	0%	7.23	1.6500
414			Top Vents - Tank 151	x	66	tons/hr	0.025	lb/ton	11	1.65	7.23	100%	0%	7.23	1.6500
415			Top Vents - Tank 152	x	66	tons/hr	0.025	lb/ton	11	1.65	7.23	100%	0%	7.23	1.6500
416	19	12	DC Dryer #1	x	37.5	tons/hr	0.90	lb/ton	8	33.75	147.83	100%	80%	29.57	6.7500
417	31	12	DC Dryer #2	x	37.5	tons/hr	0.90	lb/ton	8	33.75	147.83	100%	80%	29.57	6.7500
418	32	12	DC Cooler	x	37.5	tons/hr	0.95	lb/ton	18	35.63	156.04	100%	80%	31.21	7.1250
419	18	8	Feed Screw, Krupp #1	x	30	tons/hr	0.061	lb/ton	12	1.83	8.02	100%	80%	1.60	0.3660
420	13	9	Canola Overflow Bulk Flow	x	3.69	tons/hr	0.061	lb/ton	12	0.23	0.99	100%	80%	0.20	0.0450
421	14	4	Process Silo Rotex Discharge Drag	x	66	tons/hr	0.061	lb/ton	12	4.03	17.63	100%	99%	0.18	0.0403

Title I net emission increase calculations
CH-04a Calculations

Baseline Actuals Parameters¹

EQUI	2021	2022	Capacity (tons/hr)
	Throughput (short ton/year)		
252	7,487	19,674	37.5
253	7,487	19,674	37.5

1. 2021 and 2022 annual throughput provided by Jeffery Penman on 2/7/2023 via email.

PM Emission Factors

EQUI	PM	PM ₁₀	PM _{2.5}	Factor Units	Capture Efficiency	PM Control Efficiency	PM ₁₀ Control Efficiency	PM _{2.5} Control Efficiency	Associated TREA Pre-Construction	Source
252	0.061	0.034	0.0058	lb/ton	100%	99%	93%	93%	15	Headhouse and grain handling (Table 9.9.1-1)
253	0.061	0.034	0.0058	lb/ton	100%	99%	93%	93%	16	

Baseline Actuals Calculations

Pollutant	2021	2022	Average	2021	2022	Average	Sum of averages
	EQUI 252			EQUI 253			
	tpy						
PM	0.0023	0.0060	0.0041	0.0023	0.0060	0.0041	0.0083
PM10	0.0089	0.023	0.016	0.0089	0.023	0.016	0.032
PM2.5	0.0015	0.0040	0.0028	0.0015	0.0040	0.0028	0.0055

Future Potential Emissions

Pollutant	EQUI 252	EQUI 253	Total
	tpy		
PM	0.10	0.10	0.20
PM10	0.39	0.39	0.78
PM2.5	0.067	0.067	0.13

Sum of Differences (Future Potential Emissions - Baseline Actual Emissions)

Pollutant	EQUI 252	EQUI 253	Total
	tpy		
PM	0.10	0.10	0.19
PM10	0.37	0.37	0.75
PM2.5	0.064	0.064	0.13

Emission Unit Calculations
ADM - Red Wing

Facility Emission Source										Equipment Identification						Pollutant Type					Hexane					Uncontrolled						Pollution Control Efficiency				Unrestricted Potential		Limited Potential ¹	
TEMPO	DELTA	EU ID	TREA ID	CE ID	STRU ID	SV ID	DELTA	TEMPO	DELTA	Unit Name	VOC	PM	PM ₁₀	PM _{2.5}	CO	SO ₂	NOx	Hexane	Maximum Production Rate	Emission Factor	Factor Source Reference #	Uncontrolled Emission Rate	Uncontrolled Emit (PTE)	Capture Efficiency	Control Efficiency	Controlled Emit (PTE)	TEMPO	Hourly Pot ¹	Un-restricted Potential	Limited Potential ¹									
																			(units/hr)	(lb/units)		(lb/hr)	(ton/yr)	%	(%)	(ton/yr)	EQUI ID	(lbs/hr)	TPY	TPY	TPY								
67	023	18	010	8	008	K1 Expeller				x								30	tons/hr	0.061	lb/ton	12	8.02	100%	80%	1.60	67	0.3660	8.02	0.77									
67	023	18	010	8	008	K1 Expeller					x							30	tons/hr	0.034	lb/ton	12	4.47	100%	80%	0.89	67	0.2040	4.47	0.43									
67	023	18	010	8	008	K1 Expeller						x						30	tons/hr	0.0058	lb/ton	12	0.76	100%	80%	0.15	67	0.0348	0.76	0.07									
67	23	18	10	8	8	K1 Expeller							x					30	tons/hr	0.02459	lb/ton	22	3.23	0%	0%	3.23	67	0.7378	3.23	1.55									
72	041	21	015	14	014	Pellet Cooler				x								40	tons/hr	1.8	lb/ton	15	72.00	100%	80%	63.07	72	14.4	315.36	63.07									
72	041	21	015	14	014	Pellet Cooler					x							40	tons/hr	0.9	lb/ton	15	36.00	100%	80%	31.54	72	7.20	157.68	31.54									
72	041	21	015	14	014	Pellet Cooler						x						40	tons/hr	0.9	lb/ton	15	36.00	100%	80%	31.54	72	7.20	157.68	31.54									
72	41	21	15	14	14	Pellet Cooler							x					40	tons/hr	0.0898	lb/ton	22	0.36	0%	0%	1.57	72	0.36	1.57	1.57									
101	091	18	010	8	008	K2 Expeller				x								30	tons/hr	0.061	lb/ton	12	8.0	100%	80%	1.60	101	0.3660	8.02	0.769									
101	091	18	010	8	008	K2 Expeller					x							30	tons/hr	0.034	lb/ton	12	4.5	100%	80%	0.89	101	0.2040	4.47	0.429									
101	091	18	010	8	008	K2 Expeller						x						30	tons/hr	0.0058	lb/ton	12	0.8	100%	80%	0.15	101	0.0348	0.76	0.073									
101	91	18	10	8	8	K2 Expeller							x					30	tons/hr	0.02459	lb/ton	22	3.2	0%	0%	3.23	101	0.7378	3.23	1.551									
102	092	18	010	8	008	#1 Expeller				x								8.5	tons/hr	0.061	lb/ton	12	2.3	100%	80%	0.45	102	0.1037	2.27	0.062									
102	092	18	010	8	008	#1 Expeller					x							8.5	tons/hr	0.034	lb/ton	12	0.3	100%	80%	0.25	102	0.0578	1.27	0.034									
102	092	18	010	8	008	#1 Expeller						x						8.5	tons/hr	0.0058	lb/ton	12	0.2	100%	80%	0.04	102	0.0099	0.22	0.006									
102	92	18	10	8	8	#1 Expeller							x					8.5	tons/hr	0.02459	lb/ton	22	0.9	0%	0%	0.92	102	0.2090	0.92	0.125									
103	093	18	010	8	008	#2 Expeller				x								8.5	tons/hr	0.061	lb/ton	12	2.3	100%	80%	0.45	103	0.1037	2.27	0.062									
103	093	18	010	8	008	#2 Expeller					x							8.5	tons/hr	0.034	lb/ton	12	1.3	100%	80%	0.25	103	0.0578	1.27	0.034									
103	093	18	010	8	008	#2 Expeller						x						8.5	tons/hr	0.0058	lb/ton	12	0.2	100%	80%	0.04	103	0.0099	0.22	0.006									
103	93	18	10	8	8	#2 Expeller							x					8.5	tons/hr	0.02459	lb/ton	22	0.9	0%	0%	0.92	103	0.2090	0.92	0.125									
104	094	18	010	8	008	#3 Expeller				x								8.5	tons/hr	0.061	lb/ton	12	2.3	100%	80%	0.45	104	0.1037	2.27	0.062									
104	094	18	010	8	008	#3 Expeller					x							8.5	tons/hr	0.034	lb/ton	12	1.3	100%	80%	0.25	104	0.0578	1.27	0.034									
104	094	18	010	8	008	#3 Expeller						x						8.5	tons/hr	0.0058	lb/ton	12	0.2	100%	80%	0.04	104	0.0099	0.22	0.006									
104	94	18	10	8	8	#3 Expeller							x					8.5	tons/hr	0.02459	lb/ton	22	0.9	0%	0%	0.92	104	0.2090	0.92	0.125									
105	095	18	010	8	008	#4 Expeller				x								8.5	tons/hr	0.061	lb/ton	12	2.3	100%	80%	0.45	105	0.1037	2.27	0.062									
105	095	18	010	8	008	#4 Expeller					x							8.5	tons/hr	0.034	lb/ton	12	1.3	100%	80%	0.25	105	0.0578	1.27	0.034									
105	095	18	010	8	008	#4 Expeller						x						8.5	tons/hr	0.0058	lb/ton	12	0.2	100%	80%	0.04	105	0.0099	0.22	0.006									
105	95	18	10	8	8	#4 Expeller							x					8.5	tons/hr	0.02459	lb/ton	22	0.9	0%	0%	0.92	105	0.2090	0.92	0.125									

Facility Emission Source				Equipment Identification				Pollutant Type				Uncontrolled				Controlled				Hourly		Limited						
TEMPO	DELTA	TEMPO	DELTA	CE ID	STRU ID	SV ID	UNIT NAME	VOC	PM	PM ₁₀	PM _{2.5}	CO	SO ₂	NOx	Hexane	Maximum Production Rate	Emission Factor	Factor Source Reference #	Uncontrolled Emission Rate	Uncontrolled Emit (PTE)	Capture Efficiency	Pollution Control Efficiency	Controlled Emit (PTE)	TEMPO	EQUI ID	Hourly Pot ¹	Un-restricted Potential	Limited Potential ¹
EU ID	TREA ID	CE ID	STRU ID	SV ID	UNIT NAME											(units/hr)	(lb/units)		(lb/hr)	(ton/yr)	%	(%)	(ton/yr)			(lbs/hr)	TPY	TPY
106	096	18	010	8	008	#5 Expeller		x								8.5	0.061	12	0.5	2.3	100%	80%	0.45	106		0.1037	2.27	0.062
106	096	18	010	8	008	#5 Expeller			x							8.5	0.034	12	0.3	1.3	100%	80%	0.25	106		0.0578	1.27	0.034
106	096	18	010	8	008	#5 Expeller				x						8.5	0.0058	12	0.0	0.2	100%	80%	0.04	106		0.0099	0.22	0.006
106	96	18	10	8	8	#5 Expeller					x					8.5	0.02459	22	0.2	0.9	0%	0%	0.92	106		0.2090	0.92	0.125
252	15	007	15	015	015	River Bin 17	x									37.5	0.061	12	2.29	10.02	100%	99%	0.10	252		0.0229	10.02	0.10
252	15	007	15	015	015	River Bin 17			x							37.5	0.034	12	1.28	5.58	100%	93%	0.39	252		0.0893	5.58	0.39
252	15	007	15	015	015	River Bin 17					x					37.5	0.0058	12	0.22	0.95	100%	93%	0.07	252		0.0152	0.95	0.07
253	16	008	16	016	016	River Bin 18	x									37.5	0.061	12	2.29	10.02	100%	99%	0.10	253		0.0229	10.02	0.10
253	16	008	16	016	016	River Bin 18			x							37.5	0.034	12	1.28	5.58	100%	93%	0.39	253		0.0893	5.58	0.39
253	16	008	16	016	016	River Bin 18					x					37.5	0.0058	12	0.22	0.95	100%	93%	0.07	253		0.0152	0.95	0.07
330	178	18	010	8	008	K3 Expeller	x									30	0.061	12	1.83	8.02	100%	80%	1.60	330		0.3660	8.02	0.769
330	178	18	010	8	008	K3 Expeller			x							30	0.034	12	1.02	4.47	100%	80%	0.89	330		0.2040	4.47	0.429
330	178	18	010	8	008	K3 Expeller					x					30	0.0058	12	0.17	0.76	100%	80%	0.15	330		0.0348	0.76	0.073
330	178	18	10	8	8	K3 Expeller						x				30	0.02459	22	0.7	3.2	0%	0%	3.23	330		0.7378	3.23	1.551

1. Note EQUIS 67, 101 to 106 and 330 are bottlenecked to a throughput of 62.5 tons/hr, therefore annual emissions were distributed between the various expellers on a pro-rata basis based on

EQUI ID	Hexane (Max single HAP)			VOC			PM			PM ₁₀			PM _{2.5}			CO			SO ₂			NO _x		
	lb/hr	UNC	C	lb/hr	UNC	C	lb/hr	UNC	C	lb/hr	UNC	C	lb/hr	UNC	C	lb/hr	UNC	C	lb/hr	UNC	C	lb/hr	UNC	C
67							0.366	8.02	0.77															
67										0.20	4.47	0.43												
67												0.03	0.76	0.07										
67																						0.74	3.23	1.55
72							14.400	315.36	63.07															
72										7.20	157.68	31.54												
72																								
72																								
101							0.366	8.02	0.77															
101										0.20	4.47	0.43												
101																								
101																								
101																								
102							0.104	2.27	0.06															
102										0.06	1.27	0.03												
102																								
102																								
102																								
103							0.104	2.27	0.06															
103										0.06	1.27	0.03												
103																								
103																								
103																								
104							0.104	2.27	0.06															
104										0.06	1.27	0.03												
104																								
104																								
104																								
105							0.104	2.27	0.06															
105										0.06	1.27	0.03												
105																								
105																								
105																								

EQUI ID	Hexane (Max single HAP)		VOC		PM		PM ₁₀		PM _{2.5}		CO		SO ₂		NO _x	
	lb/hr	UNC	lb/hr	UNC	lb/hr	UNC	lb/hr	UNC	lb/hr	UNC	lb/hr	UNC	lb/hr	UNC	lb/hr	UNC
106					0.104	2.27	0.06	1.27	0.01	0.22	0.01	0.22	0.01	0.22		
106																
106																
106																
252					0.023	10.02	0.09	5.58	0.02	0.95	0.02	0.95	0.21	0.92	0.12	
252																
252																
253					0.023	10.02	0.09	5.58	0.02	0.95	0.02	0.95				
253																
253																
330					0.366	8.02	0.20	4.47	0.03	0.76	0.03	0.76	0.74	3.23	1.55	
330																
330																
330																

Source # Main Facility PTE emission factors

- 1 Grain receiving by hopper truck (Table 9.9.1-1)
- 2 Meal grinder/sizing (Table 9.11.1-1) PM10 and PM2.5 assumed to be equivalent
- 3 Grain drying by column dryer (Table 9.9.1-1)
- 4 Storage bin vent (Table 9.9.1-1)
- 5 Distillate oil fired boilers <100 MMBtu/hr (Tables 1.3-1, 1.3-2, 1.3-3, and 1.3-6)
- 6 Natural gas fired boilers <100 MMBtu/hr (Tables 1.4-1, 1.4-2, 1.4-3, 1.4-4)
- 7 Permit Limit
- 8 Meal dryer (Table 9.11.1-1) back calculated assuming 80% control by cyclone
- 9 Railcar receiving (Table 9.9.1-1)
- 10 Max actual emission rate from test record for STRU 8
- 11 Storage bin (vent) (Table 9.9.1-1)
- 12 Headhouse and grain handling (Table 9.9.1-1)
- 13 Back-calculated from Flaking rolls (Table 9.11.1-1) PM10 and PM2.5 assumed to be equivalent
- 14 Meal loadout (Table 9.11.1-1) PM10 and PM2.5 assumed to be 25% of total
- 15 Back-calculated from pellet cooling emission factor controlled by cyclone (Table 9.9.1-2) PM10 and PM2.5 assumed to be 50% of total
- 16 Diesel-fired generator (Table 3.3-1, 3.3-2) VOC from WebFIRE - SCC Code 20200102, Internal Combustion Engines, Industrial, Distillate Oil (Diesel), Reciprocating.
- 17 Back-calculated from bean conditioning (Table 9.11.1-1) PM10 and PM2.5 assumed to be equivalent
- 18 Meal cooler (Table 9.11.1-1) back calculated assuming 80% control by cyclone
- 19 Diesel fuel (Table 3.4-1). Used Chapter 3.4 for SO2 emissions because Chapter 3.3 does not allow for adjustment based on sulfur content of fuel. PTE is based on the requirement that fuel must be <0.0015% sulfur by weight.
- 20 Max solvent loss factor from NESHAP GGGG (0.7) lb/gallon, solvent density (5.638 lb/gal), n-hexane content from NESHAP, subp. GGGG (0.64), and 0.90 solvent loss ratio(SLR). Control efficiency is not applied because the solvent loss factor includes the effects of control.
- 21 See separate tank calc tabs. Controlled hourly and annual emissions are at COMG 7.
- 22 See SO2 Factor Determination Documentation below. Note emission factor is doubled to be conservative.

Source # Boiler/Emergency HAPs emission factors

- 1 AP-42 Table 1.4-3
- 2 AP-42 Table 1.4-4
- 3 AP-42 Table 1.4-2
- 4 AP-42 Table 1.3-9
- 5 AP-42 Table 1.3-10
- 6 AP-42 Table 3.3-2
- 7 AP-42 Chapter 3.1, Augmented
- 8 AP-42 Chapter 3.3, Augmented

SO₂ Emission Factor Determination¹

Equipment	Average Stack Test Result (lb/hr)	Maximum Stack Test Result (lb/hr)	Daily Throughput During Test (ton/day)	Hourly Throughput During Test (ton/hr)	Average Calculated Stack Test Factor (lb/ton)	Maximum Calculated Stack Test Factor (lb/ton)
Pellet Cooler Fan	0.06	0.09	481	20.04	0.0030	0.0045
Expeller Fan	0.21	0.27	527	21.96	0.0096	0.0123

¹ Stack Test Data referenced from ADM Lubbock TX facility. Testing was conducted on December 8th, 2003, while the facility was processing corn germ.

Attachment 2 – Subject item inventory and facility requirements

SI List

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description
Activity	Insignificant Air Emissions Activity	ACTV 3	Null	All IAs
Agency Interest	Conventional Site	AISI 1685	Null	Null
Component Group	Air Component Group	COMG 5	Null	Bulk Agricultural Rule Enclosed Handling Operations
		COMG 6	Null	Industrial Process Equipment Rule
		COMG 7	Null	Hexane Sources
		COMG 8	Null	Seed Transfer/Storage Group
		COMG 9	Null	Expeller/Conditioner Group
		COMG 10	Null	Flaker Group
		COMG 11	Null	Pellet Cooler Group
Equipment	Aboveground Storage Tank	EQUI 124	TK001	Hexane Tank 1100
		EQUI 125	TK002	Hexane Tank 4a
	Boiler	EQUI 76	EU059	Boiler #1
		EQUI 78	EU066	Boiler #2
		EQUI 374	Null	Therminol
	Cleaning Equipment	EQUI 87	EU076	Seed Cleaner
		EQUI 97	EU086	Conditioner Seed Cleaner
	Conveyor	EQUI 9	EU001	Truck Dump Drag Conveyor 1
		EQUI 13	EU114	Flake Bulk-Flow Feed Screw Conveyor
		EQUI 15	EU116	Flake Cross Screw Conveyor
		EQUI 17	EU118	Basement Cake Screw Conveyor
		EQUI 18	EU119	Horizontal Meal Drag Conveyor
		EQUI 19	EU120	Sifter Feed Screw Conveyor
		EQUI 24	EU125	Harvestore Feed Conveyor
		EQUI 30	EU131	S-N 24" Screw Conveyor to River
		EQUI 34	EU135	Incline Screw to Tanks 151and 152
		EQUI 37	EU138	Rail Cross Conveyor
		EQUI 38	EU139	Rail Pit Discharge Conveyor
		EQUI 39	EU140	Under Bins Conveyor to Loadout
		EQUI 42	EU143	Harvestore Discharge Conveyor
		EQUI 43	EU144	Harvestore Discharge Inclined Conveyor
		EQUI 47	EU152	N-S Rail Belt Conveyor
		EQUI 48	EU151	Screw Conveyor to Bins 1-6
		EQUI 49	EU155	Dryer Feed Screw Conveyor
		EQUI 53	EU159	Flaker Feed Conveyor
		EQUI 54	EU160	Flaker Collect Conveyor
		EQUI 59	EU165	Drag Conveyor to Inside Bins
		EQUI 60	EU166	L-Path Conveyor Under Bins
		EQUI 61	EU167	Drag Conveyor to Rail
		EQUI 62	EU168	Truck Meal Loadout Drag Conveyor
		EQUI 63	EU169	Traveling Enclosed Belt Conveyor/Rail Loadout
		EQUI 70	EU034	Meal Incline Drag Conveyor from Ext.
		EQUI 75	EU044	River Bin Feed Drag Conveyor(Tank 17)
		EQUI 81	EU070	Rail Pit Conveyor #2
		EQUI 85	EU074	Tank 1000 Discharge Drag Conveyor
EQUI 86		EU075	Drag Conveyor to Meal Bins	
EQUI 90		EU079	Drag Conveyor to Seed Bins	
EQUI 91		EU080	Drag Conveyor from Bins	
EQUI 98		EU087	Drag Conveyor to Conditioners	
EQUI 99		EU088	Cross Conveyor to Conditioner #1	
EQUI 108		EU101	Rerun Screw Conveyor to Day Bin	
EQUI 109		EU102	Cake Drag Conveyor 1-8 (1-5 Anderson/K3 Cake Drag #1 N-S)	
EQUI 110	EU103	Cake Drag Cross Conveyor (1-5 Anderson/K3 Cake Drag #1 E-W)		
EQUI 120	EU002	Truck Dump Drag Conveyor 2		
EQUI 121	EU003	Rail Pit Belt Conveyor 1		
EQUI 246	EU147	Enclosed Drag Conveyor		
EQUI 247	EU179	Belt Conveyor to Process Silo		
EQUI 249	EU181	TK1000 Belt Conveyor #1		
EQUI 250	EU182	TK1000 Belt Conveyor #2		
EQUI 329	Null	Bridge Drag Conveyor		
EQUI 331	EU090	Runaround Bulk-Flow to Expellers		
EQUI 332	EU113	Flake Overflow Bulk-Flow		
EQUI 333	EU115	Flake Bulk-Flow		
EQUI 336	EU126	Pellet Conveyor Top of Bins 3-6		
EQUI 337	EU127	Meal Screw from 24" Rev. Screw to East		
EQUI 338	EU129	Meal Hi-Roller East-West		
EQUI 339	EU130	24" Reversing Screw E-W or W-E		
EQUI 343	EU136	Cross Screw to Pellet Leg 1st Floor		
EQUI 344	EU141	Tramco Drag Under Inside Meal Bins		
EQUI 345	EU142	Goliath Underloader		
EQUI 351	EU043	S-N Tramco Drag to Barge Loading		
EQUI 353	EU081	Screw N-S to Tanks 151 and 152		
EQUI 354	EU082	Screw From Tank 151 to 152		
EQUI 355	EU083	151 and 152 Discharge Screw W-E		

SI List

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	
Equipment	Conveyor	EQUI 356	EU084	Screw from Tank 151 to Truck Dump Leg	
		EQUI 365	EU104	Cake Bulk-Flow	
		EQUI 368	EU005	Park Track Bulk Flow	
		EQUI 378	Null	Canola Overflow Discharge Conveyor	
		EQUI 379	Null	Spent Flake Bulk Flow	
		EQUI 380	Null	DTDC Discharge Conveyor	
		EQUI 381	Null	Incline Conveyor to Final Meal Leg	
		EQUI 382	Null	#1 Conditioner Feed Screw	
		EQUI 383	Null	#2 Conditioner Feed Screw	
		EQUI 384	Null	Conditioner Rotex Feed Screw Conveyor	
		EQUI 385	Null	Flake Bulk Flow Discharge Conveyor #2	
		EQUI 387	Null	Bin 22 Discharge Conveyor	
		EQUI 388	Null	DTDC Feed Conveyor	
		EQUI 389	Null	Extraction Plug Screw	
		EQUI 390	Null	Feed Screw to 600HP Pellet Mill	
		EQUI 391	Null	Flake Bulkflow Discharge #1	
		EQUI 392	Null	Flake Discharge Overflow Bulkflow	
		EQUI 393	Null	Grain Dryer Discharge Screw E & W	
		EQUI 396	Null	Pellet Cooler Feed Screw	
		EQUI 397	Null	Pellet Mill 250HP West Feed Screw	
		EQUI 398	Null	Rail Leg Discharge Screw Conveyor	
		EQUI 399	Null	Pellet Mill 250HP East Feed Screw	
		EQUI 400	Null	Process Silo Belt Conveyor	
		EQUI 401	Null	Process Silo Rotex Feed Screw Conveyor	
		EQUI 402	Null	Feed Screw, Anderson #1	
		EQUI 403	Null	Feed Screw, Anderson #2	
		EQUI 404	Null	Feed Screw, Anderson #3	
		EQUI 405	Null	Feed Screw, Anderson #4	
		EQUI 406	Null	Feed Screw, Anderson #5	
		EQUI 407	Null	Feed Screw, Krupp #2	
		EQUI 408	Null	Feed Screw, Krupp #3	
		EQUI 409	Null	Pellet Cooler Discharge Conveyor	
		EQUI 419	Null	Feed Screw, Krupp #1	
		EQUI 420	Null	Canola OverFlow Bulk Flow	
		EQUI 421	Null	Process Silo Rotex Discharge Drag	
		Cooler	EQUI 72	EU041	Pellet Cooler
			EQUI 418	Null	DC Cooler
		Dryer/Oven, indirect fired	EQUI 416	Null	DC Dryer #1
			EQUI 417	Null	DC Dryer #2
		Elevator	EQUI 44	EU145	Harvestore Discharge Elevator Leg
			EQUI 46	EU150	Inside Silo Elevator Leg
			EQUI 55	EU161	Final Meal Elevator Leg
			EQUI 57	EU163	Pellet Elevator Leg
			EQUI 58	EU164	Elevator Leg to Harvestore
			EQUI 65	EU011	Elevator Leg
			EQUI 73	EU042	River Bin Elevator Leg
			EQUI 80	EU069	Truck Dump Elevator Leg #2
			EQUI 82	EU071	Rail Seed Elevator Leg
			EQUI 89	EU078	160' Leg at Flour Mill Elevator
			EQUI 107	EU100	Rerun Seed Elevator Leg
			EQUI 248	EU180	Rail Elevator Leg
EQUI 370	EU156		Dryer Discharge Elevator Leg		
Extractor	EQUI 67		EU023	K1 Expeller	
	EQUI 77		EU065	Extractor	
	EQUI 101	EU091	K2 Expeller		
	EQUI 102	EU092	#1 Expeller		
	EQUI 103	EU093	#2 Expeller		
	EQUI 104	EU094	#3 Expeller		
	EQUI 105	EU095	#4 Expeller		
	EQUI 106	EU096	#5 Expeller		
	EQUI 11	EU112	#6 Flaker		
	Flaker Equipment	EQUI 14	EU115	Flake Bulk-Flow	
EQUI 68		EU025	#1 Flaker		
EQUI 115		EU108	#2 Flaker		
EQUI 116		EU109	#3 Flaker		
EQUI 117		EU110	#4 Flaker		
EQUI 118		EU111	#5 Flaker		
Material Handling Equipment	EQUI 410	Null	Top Vents - Flour Mill Elevator Silos		
	EQUI 411	Null	Top Vents - Inside/Outside Meal Bins/Harvestore		
	EQUI 412	Null	Top Vents - Process Elevator Silos		
	EQUI 413	Null	Top Vents - Tank 1000		
	EQUI 414	Null	Top Vents - Tank 151		
	EQUI 415	Null	Top Vents - Tank 152		

SI List

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	
Equipment	Mechanical Processing	EQUI 334	EU123	Meal Grinder #1	
		EQUI 335	EU124	Meal Grinder #2	
	Milling Equipment	EQUI 31	EU132	Pellet Mill 600 HP	
		EQUI 32	EU133	Pellet Mill E 250 HP	
		EQUI 33	EU134	Pellet Mill W 250 HP	
		EQUI 112	EU105	Cake Hammermill	
		EQUI 386	Null	1st Mixer Screw to 600HP Pellet Mill	
	Other Emission Unit	EQUI 64	EU176	Conditioner #1	
		EQUI 69	EU033	Desolventizer-Toaster	
		EQUI 100	EU089	Conditioner #2	
		EQUI 369	EU019	Column Dryer with Screen Airs	
	Pressing Equipment	EQUI 330	EU178	K3 Expeller	
	Reciprocating IC Engine	EQUI 372	Null	Emergency Generator	
		EQUI 375	Null	North Fire Pump	
		EQUI 376	Null	South Fire Pump	
	Separation Equipment	EQUI 20	EU121	Static Sifter #1	
		EQUI 21	EU122	Static Sifter #2	
	Silo/Bin	EQUI 50	EU158	Seed Day Bin	
		EQUI 71	EU038	Drag Conveyor to Outside Meal Bins/Harvestore	
		EQUI 252	Null	River Bin 17	
		EQUI 253	Null	River Bin 18	
	Structure	Building	STRU 29	Null	Truckers Lounge
			STRU 30	Null	Refinery
			STRU 31	Null	Boiler Room
			STRU 32	Null	Clay Tank Room
			STRU 33	Null	Maintenance and Storage
			STRU 34	Null	Expeller Plant
			STRU 35	Null	Flour Mill Penthouse
			STRU 36	Null	Office
			STRU 37	Null	Diesel House/Pump House
			STRU 38	Null	Process Silos Head House
			STRU 39	Null	Solvent Plant
			STRU 40	Null	Extraction (MCC Room)
STRU 41			Null	Meal House	
STRU 42			Null	Process Silo Truck Dump	
STRU 43			Null	Foam House	
STRU 44			Null	Flour Mill Head House	
STRU 45			Null	Flour Mill Truck Dump	
STRU 46			Null	Rail Car Seed Receiving Control Room	
STRU 47			Null	Barge Loading Dock	
STRU 48			Null	Well House	
STRU 49			Null	Flour Mill Silos MCC (MCC)	
STRU 50			Null	Rail Oil Loadout	
STRU 51			Null	River Shed	
STRU 52			Null	Electrician Tool Room	
STRU 53			Null	Shop Addition	
STRU 54			Null	Process Silo Penthouse	
STRU 55			Null	Loading Dock	
STRU 56			Null	Penthouse	
STRU 57			Null	Bleach Penthouse	
STRU 58			Null	Tracks 1-3 Rail Building (roof)	
STRU 59			Null	Shop	
STRU 60			Null	Scale Office	
STRU 61		Null	Meal Railcar Load Area		
STRU 62	Null	Bulk Storage			
Stack/Vent	STRU 3	SV003	Railcar Receiving		
	STRU 4	SV004	Process Elevator 1a & 1b		
	STRU 5	SV005	Old Flour Mill		
	STRU 6	SV006	Grain/Seed Storage		
	STRU 7	SV007	Grain/Seed Dryer		
	STRU 8	SV008	Expeller/Conditioner		
	STRU 9	SV009	Flaking Rolls		
	STRU 10	SV010	Conveyor to Extractor		
	STRU 11	SV011	Extractor/DTDC (Desolventizer Toaster) Hexane Tanks		
	STRU 12	SV012	DTDC (Dryers/Coolers)		
	STRU 13	SV013	Meal Grinding		
STRU 14	SV014	Pellet Cooler			
STRU 15	SV015	River Bin Tank 17			
STRU 16	SV016	River Bin Tank 18			
STRU 17	SV017	Rail/Barge Loadout/Barge Receiving			
STRU 18	SV018	Truck Loadout			
STRU 22	SV022	Boiler 2			
STRU 23	SV023	Boiler 1			

SI List

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description
Structure	Stack/Vent	STRU 24	SV024	Emergency Generator
		STRU 63	Null	North Fire Pump
		STRU 64	Null	South Fire Pump
		STRU 65	Null	Flour Mill
		STRU 66	Null	Truck Receiving Pit 2
Total Facility	Air Quality Total Facility	TFAC 1	04900001	Archer Daniels Midland Co - Red Wing
Treatment	008-Centrifugal Collector - Medium Efficiency	TREA 13	CE005	Flaking Rolls
		TREA 18	CE010	Expeller/Conditioner
		TREA 19	CE013	DC Dryer #1
		TREA 21	CE015	Pellet Cooler
		TREA 30	Null	Column Dryer Cyclone
		TREA 31	Null	DC Dryer #2
		TREA 32	Null	DC Cooler
	018-Fabric Filter - Low Temp, T<180 Degrees F	TREA 11	CE003	Railcar Receiving
		TREA 14	CE006	Process Elevator 1a & 1b
		TREA 15	CE007	River Bin 17
		TREA 16	CE008	River Bin 18
		TREA 20	CE014	Meal Grinding
		TREA 25	CE021	Rail/Barge Loadout
		TREA 29	CE009	Flour Mill
		TREA 33	Null	Truck Meal Loadout
		TREA 35	Null	Flour Mill
		TREA 36	Null	Flour Mill Truck Dump
	099-Other	TREA 26	CE028	MO Absorber/Cold Water Condenser

Insignificant Activities

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Status Description	Sub Attribute Description	
Activity	Insignificant Air Emissions Activity	Active / Existing	Minn. R. 7007.1300, subp. 3(D)	
			Minn. R. 7007.1300, subp. 3(E)	
			Minn. R. 7007.1300, subp. 3(F)	
			Minn. R. 7007.1300, subp. 4	

Emission Units 1

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)
 Activity: IND20230001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Firing Method	Subject to CSAPR?	Electric Generating Capacity (MW)	Construction Start Date	Operation Start Date	Modification Date	
Boiler	EQUI 76	EU059	Boiler #1	Murray	MCF4-67	88	million British thermal units/hours	Heat	Not coal burning	N	Null	1/1/1972	1/1/1972	Null	
	EQUI 78	EU066	Boiler #2	Cleaver-Brooks	DL-68	65	million British thermal units/hours	Heat	Not coal burning	N	Null	1/1/2001	1/1/2001	Null	
	EQUI 374	Null	Therminol	International-LaMont	TH-10	10	million British thermal units/hours	Heat	Not coal burning	N	Null	5/15/2002	5/15/2002	Null	
Dryer/Oven, indirect fired	EQUI 416	Null	DC Dryer #1	Crown Iron	180 inch	40	tons/hours	Grain	Not coal burning	Null	Null	2/24/1985	2/24/1985	Null	
	EQUI 417	Null	DC Dryer #2	Crown Iron	180 inch	40	tons/hours	Grain	Not coal burning	Null	Null	2/24/1985	2/24/1985	Null	

Emission Units 2

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)
 Activity: IND20230001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Engine Use	Firing Method	Engine Displacement	Engine Displacement Units	Construction Start Date	Operation Start Date	Modification Date	
Reciprocating IC Engine	EQUI 372	Null	Emergency Generator	Caterpillar	3306B	250	horsepower-hours/ho..	Electrical Energy	Emergency/blacks..	CI	2.2	liters per cylinder	1/1/2000	1/1/2000	Null	
	EQUI 375	Null	North Fire Pump	Cummins	NT-855-C	280	horsepower-hours/ho..	Electrical Energy	Firepump	CI	3.5	liters per cylinder	1/1/1980	1/1/1980	Null	
	EQUI 376	Null	South Fire Pump	Cummins	NT-855-C	280	horsepower-hours/ho..	Electrical Energy	Firepump	CI	3.5	liters per cylinder	1/1/1980	1/1/1980	Null	

Emission Units 3

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date
Cleaning Equipment	EQUI 87	EU076	Seed Cleaner	Rotex	52 GC	2,000	bushels/hours	Grain	1/1/1979	1/1/1979	Null
	EQUI 97	EU086	Conditioner Seed Cleaner	Rotex	81 GP	5,000	bushels/hours	Grain	1/1/1975	1/1/1975	Null
Conveyor	EQUI 9	EU001	Truck Dump Drag Conveyor 1	Tramco	Model 14 RS	6,000	bushels/hours	Grain	1/1/2008	1/1/2008	Null
	EQUI 13	EU114	Flake Bulk-Flow Feed Screw Conveyor	Custom	20" x 15'	5,000	cubic feet/hours	Grain	1/1/1991	1/1/1991	Null
	EQUI 15	EU116	Flake Cross Screw Conveyor	Custom	20" x 26'	4,774	cubic feet/hours	Grain	1/1/1991	1/1/1991	Null
	EQUI 17	EU118	Basement Cake Screw Conveyor	Huss & Schlieper	20x75	5,000	cubic feet/hours	Grain	1/1/1999	1/1/1999	Null
	EQUI 18	EU119	Horizontal Meal Drag Conveyor	Tramco	12x20	60	tons/hours	Grain	1/1/1998	1/1/1998	Null
	EQUI 19	EU120	Sifter Feed Screw Conveyor	Custom	16 inch	3,000	cubic feet/hours	Grain	1/1/1991	1/1/1991	Null
	EQUI 24	EU125	Harvestore Feed Conveyor	Custom	12" X 30'	3,000	cubic feet/hours	Grain	1/1/1977	1/1/1977	Null
	EQUI 30	EU131	S-N 24" Screw Conveyor to River	Custom	24" x 130'	5,000	cubic feet/hours	Grain	1/1/1995	1/1/1995	Null
	EQUI 34	EU135	Incline Screw to Tanks 151and 152	Custom	20" x 50'	10,000	bushels/hours	Grain	1/1/1978	1/1/1978	Null
	EQUI 37	EU138	Rail Cross Conveyor	Tramco	24x26 Mod G	250	tons/hours	Grain	1/1/1999	1/1/1999	Null
	EQUI 38	EU139	Rail Pit Discharge Conveyor	Tramco	30 Model G	300	tons/hours	Grain	1/1/1999	1/1/1999	Null
	EQUI 39	EU140	Under Bins Conveyor to Loadout	Custom	20"	5,000	cubic feet/hours	Grain	1/1/1976	1/1/1976	Null
	EQUI 42	EU143	Harvestore Discharge Conveyor	Custom	20" x 20'	5,000	cubic feet/hours	Grain	1/1/1976	1/1/1976	Null
	EQUI 43	EU144	Harvestore Discharge Inclined Conveyor	Custom	20" x 20'	5,000	cubic feet/hours	Grain	1/1/1976	1/1/1976	Null
	EQUI 47	EU152	N-S Rail Belt Conveyor	Hi-Roller	Model 36	30,000	bushels/hours	Grain	1/1/1997	1/1/1997	Null
	EQUI 48	EU151	Screw Conveyor to Bins 1-6	Custom	24" x 60'	10,000	bushels/hours	Grain	1/1/1982	1/1/1982	Null
	EQUI 49	EU155	Dryer Feed Screw Conveyor	Custom	16" x 12'	63	tons/hours	Grain	1/1/1979	1/1/1979	Null
	EQUI 53	EU159	Flaker Feed Conveyor	Tramco	14 RS	135	tons/hours	Grain	1/1/1991	1/1/1991	Null
EQUI 54	EU160	Flaker Collect Conveyor	Huss & Schlieper	20" x 75'	25	tons/hours	Grain	1/1/1992	1/1/1992	Null	
EQUI 59	EU165	Drag Conveyor to Inside Bins	Tramco	18x 20 Mod H	60	tons/hours	Grain	1/1/1994	1/1/1994	Null	

Emission Units 3

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date
Conveyor	EQUI 60	EU166	L-Path Conveyor Under Bins	EEE	12x30 Swift Flow	300	tons/hours	Grain	1/1/1974	1/1/1974	Null
	EQUI 61	EU167	Drag Conveyor to Rail	Tramco	24 EHS	20,000	bushels/hours	Grain	1/1/1981	1/1/1981	Null
	EQUI 62	EU168	Truck Meal Loadout Drag Conveyor	Tramco	24 Model G	200	tons/hours	Grain	1/1/1986	1/1/1986	Null
	EQUI 63	EU169	Traveling Enclosed Belt Conveyor/Rail Loadout	Hi-Roller	Model 36	200	tons/hours	Grain	1/1/1999	1/1/1999	Null
	EQUI 70	EU034	Meal Incline Drag Conveyor from Ext.	Tramco	8 x 15 Bulk-Flo	60	tons/hours	Grain	1/1/1998	1/1/1998	Null
	EQUI 75	EU044	River Bin Feed Drag Conveyor(Tank 17)	Tramco	18x20 Model G	90	tons/hours	Grain	1/1/1997	1/1/1997	Null
	EQUI 81	EU070	Rail Pit Conveyor #2	Hi-Roller	Model 24	30,000	bushels/hours	Grain	1/1/1997	1/1/1997	Null
	EQUI 85	EU074	Tank 1000 Discharge Drag Conveyor	Tramco	Model 14 RS	6,000	bushels/hours	Grain	1/1/1977	1/1/1977	Null
	EQUI 86	EU075	Drag Conveyor to Meal Bins	Tramco	12" x 15'	10,000	bushels/hours	Grain	1/1/1985	1/1/1985	Null
	EQUI 90	EU079	Drag Conveyor to Seed Bins	Tramco	24 EHS	20,000	bushels/hours	Grain	1/1/1981	1/1/1981	Null
	EQUI 91	EU080	Drag Conveyor from Bins	Tramco	30 EHS	20,000	bushels/hours	Grain	1/1/1981	1/1/1981	Null
	EQUI 98	EU087	Drag Conveyor to Conditioners	Tramco	18" RS	50	tons/hours	Grain	1/1/1988	1/1/1988	Null
	EQUI 99	EU088	Cross Conveyor to Conditioner #1	Custom	16" x 15'	5,000	bushels/hours	Grain	1/1/1978	1/1/1978	Null
	EQUI 108	EU101	Rerun Screw Conveyor to Day Bin	Custom	16" x 25'	5,000	bushels/hours	Grain	1/1/1978	1/1/1978	Null
	EQUI 109	EU102	Cake Drag Conveyor 1-8 (1-5 Anderson/K3 Cake Drag #1 N-S)	Huss & Schlieper	20" x 60'	8,000	bushels/hours	Grain	1/1/2000	1/1/2000	Null
	EQUI 110	EU103	Cake Drag Cross Conveyor (1-5 Anderson/K3 Cake Drag #1 E-W)	Huss & Schlieper	20" x 16'	8,000	bushels/hours	Grain	1/1/2002	1/1/2002	Null
	EQUI 120	EU002	Truck Dump Drag Conveyor 2	Tramco	24 EHS	20,000	bushels/hours	Grain	1/1/1981	1/1/1981	Null
	EQUI 121	EU003	Rail Pit Belt Conveyor 1	Hi-Roller	Model 24	30,000	bushels/hours	Grain	1/1/1997	1/1/1997	Null
	EQUI 246	EU147	Enclosed Drag Conveyor	Divine	Divinaflo Model 132	30,000	bushels/hours	Grain	4/20/2018	4/20/2018	Null
	EQUI 247	EU179	Belt Conveyor to Process Silo	Hi-Roller	Model 36	30,000	bushels/hours	Grain	4/20/2018	4/20/2018	Null
	EQUI 249	EU181	TK1000 Belt Conveyor #1	Hi-Roller	Model 36	30,000	bushels/hours	Grain	1/22/2018	1/22/2018	Null
	EQUI 250	EU182	TK1000 Belt Conveyor #2	Hi-Roller	Model 36	30,000	bushels/hours	Grain	1/22/2018	1/22/2018	Null

Emission Units 3

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date	
Conveyor	EQUI 329	Null	Bridge Drag Conveyor	Tramco	Model G	135	tons/hours	Grain	8/11/2015	8/18/2015	Null	
	EQUI 331	EU090	Runaround Bulk-Flow to Expellers	Divine	10x20 Loop	62.5	tons/hours	Grain	1/1/1979	1/1/1979	Null	
	EQUI 332	EU113	Flake Overflow Bulk-Flow	EEE	19x24	3,000	cubic feet/hours	Grain	1/1/1978	1/1/1978	Null	
	EQUI 333	EU115	Flake Bulk-Flow	Divine Eng.	10x20 SS	4,774	cubic feet/hours	Grain	1/1/1991	1/1/1991	Null	
	EQUI 336	EU126	Pellet Conveyor Top of Bins 3-6	Custom	12" x 45'	3,000	cubic feet/hours	Grain	1/1/1975	1/1/1975	Null	
	EQUI 337	EU127	Meal Screw from 24" Rev. Screw to East	Custom	24"x25'	3,000	cubic feet/hours	Grain	1/1/1975	1/1/1975	Null	
	EQUI 338	EU129	Meal Hi-Roller East-West	Hi-Roller	Model 18	60	tons/hours	Grain	1/1/1994	1/1/1994	Null	
	EQUI 339	EU130	24" Reversing Screw E-W or W-E	Custom	24" x 300'	5,000	cubic feet/hours	Grain	1/1/1995	1/1/1995	Null	
	EQUI 343	EU136	Cross Screw to Pellet Leg 1st Floor	Custom	20" x 36'	5,000	cubic feet/hours	Grain	1/1/1999	1/1/1999	Null	
	EQUI 344	EU141	Tramco Drag Under Inside Meal Bins	Tramco	30 Model G	16,000	cubic feet/hours	Grain	1/1/1980	1/1/1980	Null	
	EQUI 345	EU142	Goliath Underloader	Goliath	14' Model 74	5,000	cubic feet/hours	Grain	1/1/1976	1/1/1976	Null	
	EQUI 351	EU043	S-N Tramco Drag to Barge Loading	Tramco	24 EHS	20,000	bushels/hours	Grain	1/1/1978	1/1/1978	Null	
	EQUI 353	EU081	Screw N-S to Tanks 151 and 152	Custom	20" x 40'	10,000	bushels/hours	Grain	1/1/1978	1/1/1978	Null	
	EQUI 354	EU082	Screw From Tank 151 to 152	Custom	20" x 65'	10,000	bushels/hours	Grain	1/1/1978	1/1/1978	Null	
	EQUI 355	EU083	151 and 152 Discharge Screw W-E	Custom	16" x 64'	5,000	bushels/hours	Grain	1/1/1978	1/1/1978	Null	
	EQUI 356	EU084	Screw from Tank 151 to Truck Dump Leg	Custom	18" x 64'	5,000	bushels/hours	Grain	1/1/1985	1/1/1985	Null	
	EQUI 365	EU104	Cake Bulk-Flow	Divine	10x24	5,774	cubic feet/hours	Grain	1/1/1999	1/1/1999	Null	
	EQUI 368	EU005	Park Track Bulk Flow	EEE	10x24	5,880	cubic feet/hours	Grain	1/1/1977	1/1/1977	Null	
	EQUI 378	Null	Canola Overflow Discharge Conveyor	BDI	9" x 15'	1,271	square feet/hours	Grain	1/1/2003	1/1/2003	Null	
	EQUI 379	Null	Spent Flake Bulk Flow	Divine	24" X 120'	14,865	bushels/hours	Grain	1/1/1985	1/1/1985	Null	
	EQUI 380	Null	DTDC Discharge Conveyor	Custom	24" x 30' SS	17,840	bushels/hours	Grain	1/1/1985	1/1/1985	Null	
	EQUI 381	Null	Incline Conveyor to Final Meal Leg	Custom	20" x 35'	8,960	bushels/hours	Grain	1/1/1994	1/1/1994	Null	

Emission Units 3

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date
Conveyor	EQUI 382	Null	#1 Conditioner Feed Screw	BDI	18" x 8'	4,000	square feet/hours	Grain	1/1/1973	1/1/1973	Null
	EQUI 383	Null	#2 Conditioner Feed Screw	BDI	18" x 5'	4,000	square feet/hours	Grain	1/1/1978	1/1/1978	Null
	EQUI 384	Null	Conditioner Rotex Feed Screw Conveyor	BDI	16" x 12'	2,500	square feet/hours	Grain	1/1/1978	1/1/1978	Null
	EQUI 385	Null	Flake Bulk Flow Discharge Conveyor #2	Custom	20" x 25'	10,720	bushels/hours	Grain	1/1/1991	1/1/1991	Null
	EQUI 387	Null	Bin 22 Discharge Conveyor	BDI	16" x 12'	2,500	square feet/hours	Grain	1/1/1981	1/1/1981	Null
	EQUI 388	Null	DTDC Feed Conveyor	Custom	24" x 20'	17,840	bushels/hours	Grain	1/1/1985	1/1/1985	Null
	EQUI 389	Null	Extraction Plug Screw	Custom	36" x 10'	11,064	square feet/hours	Grain	1/1/1996	1/1/1996	Null
	EQUI 390	Null	Feed Screw to 600HP Pellet Mill	Custom	20" x 15'	5,000	square feet/hours	Grain	1/1/1980	1/1/1980	Null
	EQUI 391	Null	Flake Bulkflow Discharge #1	BDI	20" x 15'	5,000	square feet/hours	Grain	1/1/1991	1/1/1991	Null
	EQUI 392	Null	Flake Discharge Overflow Bulkflow	BDI	24" x 20'	17,535	square feet/hours	Grain	1/1/1992	1/1/1992	Null
	EQUI 393	Null	Grain Dryer Discharge Screw E & W	Custom	12" x 24'	3,000	square feet/hours	Grain	1/1/1980	1/1/1980	Null
	EQUI 396	Null	Pellet Cooler Feed Screw	Custom	18" x 24'	4,000	square feet/hours	Grain	1/1/1999	1/1/1999	Null
	EQUI 397	Null	Pellet Mill 250HP West Feed Screw	BDI	16" x 10'	6,524	square feet/hours	Grain	1/1/1995	1/1/1995	Null
	EQUI 398	Null	Rail Leg Discharge Screw Conveyor	BDI	24" x 24'	14,865	bushels/hours	Grain	1/1/1994	1/1/1994	Null
	EQUI 399	Null	Pellet Mill 250HP East Feed Screw	BDI	20"x12'	5,000	square feet/hours	Grain	1/1/1995	1/1/1995	Null
	EQUI 400	Null	Process Silo Belt Conveyor	Hi-Roller	Model 18	5,000	bushels/hours	Grain	6/1/2018	6/1/2018	Null
	EQUI 401	Null	Process Silo Rotex Feed Screw Conveyor	BDI	16" x 12'	4,500	square feet/hours	Grain	1/1/1979	1/1/1979	Null
	EQUI 402	Null	Feed Screw, Anderson #1	Anderson	10" x 6'	8	tons/hours	Grain	1/1/1980	1/1/1980	Null
	EQUI 403	Null	Feed Screw, Anderson #2	Anderson	10" x 6'	8	tons/hours	Grain	1/1/1980	1/1/1980	Null
	EQUI 404	Null	Feed Screw, Anderson #3	Anderson	10" x 6'	8	tons/hours	Grain	1/1/1980	1/1/1980	Null
	EQUI 405	Null	Feed Screw, Anderson #4	Anderson	10" x 6'	8	tons/hours	Grain	1/1/1980	1/1/1980	Null
	EQUI 406	Null	Feed Screw, Anderson #5	Anderson	10" x 6'	8	tons/hours	Grain	1/1/1980	1/1/1980	Null

Emission Units 3

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date	
Conveyor	EQUI 407	Null	Feed Screw, Krupp #2	BDI	10" x 15'	30	tons/hours	Grain	1/1/1998	1/1/1998	Null	
	EQUI 408	Null	Feed Screw, Krupp #3	BDI	10" x 15'	30	tons/hours	Grain	12/7/2012	12/7/2012	Null	
	EQUI 409	Null	Pellet Cooler Discharge Conveyor	Custom	20" x 12'	5,000	square feet/hours	Grain	1/1/1999	1/1/1999	Null	
	EQUI 419	Null	Feed Screw, Krupp #1	BDI	10" x 15'	30	tons/hours	Grain	5/1/2021	5/1/2021	Null	
	EQUI 420	Null	Canola OverFlow Bulk Flow	Custom	16" x 12'	2,500	cubic feet/hours	Grain	1/1/2003	1/1/2003	Null	
	EQUI 421	Null	Process Silo Rotex Discharge Drag	Tramco	18" RS	50	tons/hours	Grain	1/1/1988	1/1/1988	Null	
Cooler	EQUI 72	EU041	Pellet Cooler	Bliss	RBR-393-6A	40	tons/hours	Grain	1/1/1999	1/1/1999	Null	
	EQUI 418	Null	DC Cooler	Crown Iron	180 inch	40	tons/hours	Grain	2/24/1985	2/24/1985	Null	
Elevator	EQUI 44	EU145	Harvestore Discharge Elevator Leg	Anderson Crane	12x7	5,000	cubic feet/hours	Grain	1/1/1976	1/1/1976	Null	
	EQUI 46	EU150	Inside Silo Elevator Leg	Custom	12x7	5,800	bushels/hours	Grain	1/1/1978	1/1/1978	Null	
	EQUI 55	EU161	Final Meal Elevator Leg	Huss & Schlieper	11x17 Mod 12636	40	tons/hours	Grain	2/24/1994	2/24/1994	Null	
	EQUI 57	EU163	Pellet Elevator Leg	ABC	12x7	6,000	bushels/hours	Grain	1/1/1980	1/1/1980	Null	
	EQUI 58	EU164	Elevator Leg to Harvestore	ABC	12x7	40	tons/hours	Grain	1/1/1977	1/1/1977	Null	
	EQUI 65	EU011	Elevator Leg	Custom	16x7.5	10,000	bushels/hours	Grain	1/1/1978	1/1/1978	Null	
	EQUI 73	EU042	River Bin Elevator Leg	ABC	11x7.5	4,000	bushels/hours	Grain	1/1/1981	1/1/1981	Null	
	EQUI 80	EU069	Truck Dump Elevator Leg #2	Union Iron	20,000 BPH	25,000	bushels/hours	Grain	1/1/1979	1/1/1979	Null	
	EQUI 82	EU071	Rail Seed Elevator Leg	Huss & Schlieper	20x8	30,000	bushels/hours	Grain	1/1/1997	1/1/1997	Null	
	EQUI 89	EU078	160' Leg at Flour Mill Elevator	Custom	16x7	10,000	bushels/hours	Grain	1/1/1981	1/1/1981	Null	
	EQUI 107	EU100	Rerun Seed Elevator Leg	Custom	12x7	5,000	bushels/hours	Grain	1/1/1978	1/1/1978	Null	
	EQUI 248	EU180	Rail Elevator Leg	BCI	BE- 48x20x8-2	30,000	bushels/hours	Grain	4/20/2018	4/20/2018	Null	
	EQUI 370	EU156	Dryer Discharge Elevator Leg	ABC	12 x 7.5	93	tons/hours	Grain	1/1/1980	1/1/1980	Null	
Extractor	EQUI 67	EU023	K1 Expeller	Krupp	EP-20	30	tons/hours	Grain	1/1/1998	1/1/1998	Null	

Emission Units 3

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date	
Extractor	EQUI 77	EU065	Extractor	Crown	Ser. 3000, Mod. 3	63	tons/hours	Grain	1/1/1996	1/1/1996	Null	
	EQUI 101	EU091	K2 Expeller	Krupp	EP-20	30	tons/hours	Grain	1/1/1998	1/1/1998	Null	
	EQUI 102	EU092	#1 Expeller	Anderson	11A-66	9	tons/hours	Grain	1/1/1980	1/1/1980	Null	
	EQUI 103	EU093	#2 Expeller	Anderson	11A-66	9	tons/hours	Grain	1/1/1980	1/1/1980	Null	
	EQUI 104	EU094	#3 Expeller	Anderson	11A-66	9	tons/hours	Grain	1/1/1980	1/1/1980	Null	
	EQUI 105	EU095	#4 Expeller	Anderson	11A-66	9	tons/hours	Grain	1/1/1980	1/1/1980	Null	
	EQUI 106	EU096	#5 Expeller	Anderson	11A-66	9	tons/years	Grain	1/1/1980	1/1/1980	Null	
Flaker Equipment	EQUI 11	EU112	#6 Flaker	Ferrel-Ross	24x48	15	tons/hours	Grain	1/1/1976	1/1/1976	Null	
	EQUI 14	EU115	Flake Bulk-Flow	Divine	36" X 200'	62.5	tons/hours	Grain	1/1/1996	1/1/1996	Null	
	EQUI 68	EU025	#1 Flaker	Ferrel-Ross	24x48	15	tons/hours	Grain	1/1/1974	1/1/1974	Null	
	EQUI 115	EU108	#2 Flaker	Ferrel-Ross	24x48	15	tons/hours	Grain	1/1/1974	1/1/1974	Null	
	EQUI 116	EU109	#3 Flaker	Ferrel-Ross	24x48	15	tons/hours	Grain	1/1/1975	1/1/1975	Null	
	EQUI 117	EU110	#4 Flaker	Ferrel-Ross	24x48	15	tons/hours	Grain	1/1/1975	1/1/1975	Null	
	EQUI 118	EU111	#5 Flaker	Ferrel-Ross	24x48	15	tons/hours	Grain	1/1/1976	1/1/1976	Null	
Material Handling Equipment	EQUI 410	Null	Top Vents - Flour Mill Elevator Silos	NA	NA	340	tons/hours	Grain	1/1/1962	1/1/1962	Null	
	EQUI 411	Null	Top Vents - Inside/Outside Meal Bins/Harvestore	NA	NA	37.5	tons/hours	Grain	1/1/1971	1/1/1971	Null	
	EQUI 412	Null	Top Vents - Process Elevator Silos	NA	NA	840	tons/hours	Grain	1/1/1969	1/1/1969	Null	
	EQUI 413	Null	Top Vents - Tank 1000	NA	NA	840	tons/hours	Grain	1/1/1960	1/1/1960	Null	
	EQUI 414	Null	Top Vents - Tank 151	NA	NA	280	tons/hours	Grain	1/1/1971	1/1/1971	Null	
	EQUI 415	Null	Top Vents - Tank 152	NA	NA	280	tons/hours	Grain	1/1/1971	1/1/1971	Null	
Mechanical Processing	EQUI 334	EU123	Meal Grinder #1	Jacobsen	XLT4526	40	tons/hours	Grain	1/1/1978	1/1/1978	Null	
	EQUI 335	EU124	Meal Grinder #2	Jacobson	XLT4526	40	tons/hours	Grain	1/1/1978	1/1/1978	Null	

Emission Units 3

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Type	Subject Item ID	Delta Designation	Description	Manufacturer	Model	Max Design Capacity	Max Design Capacity Units	Material	Construction Start Date	Operation Start Date	Modification Date	
Milling Equipment	EQUI 31	EU132	Pellet Mill 600 HP	CPM	8152	30	tons/hours	Grain	1/1/1980	1/1/1980	Null	
	EQUI 32	EU133	Pellet Mill E 250 HP	CPM	201	7	tons/hours	Grain	1/1/1995	1/1/1995	Null	
	EQUI 33	EU134	Pellet Mill W 250 HP	CPM	201	7	tons/hours	Grain	1/1/1995	1/1/1995	Null	
	EQUI 112	EU105	Cake Hammermill	Prater	GH38FSI	5,000	cubic feet/hours	Grain	1/1/1979	1/1/1979	Null	
Mixing Equipment	EQUI 386	Null	1st Mixer Screw to 600HP Pellet Mill	BDI	36" x 12'	11,064	square feet/hours	Grain	1/1/1980	1/1/1980	Null	
Other Emission Unit	EQUI 64	EU176	Conditioner #1	Louisville Dryer	6x50	63	tons/hours	Grain	1/1/1973	1/1/1973	Null	
	EQUI 69	EU033	Desolventizer-Toaster	Crown Iron	180 inch	40	tons/hours	Grain	2/24/1985	2/24/1985	Null	
	EQUI 100	EU089	Conditioner #2	Superior Dryer	6x50	63	tons/hours	Grain	1/1/1978	1/1/1978	Null	
	EQUI 369	EU019	Column Dryer with Screen Airs	Berico Industries	1560-CES-SA	70	tons/years	Grain	1/1/1980	1/1/1980	Null	
Pressing Equipment	EQUI 330	EU178	K3 Expeller	Krupp	EP-20	30	tons/hours	Grain	12/7/2012	2/6/2013	Null	
Separation Equipment	EQUI 20	EU121	Static Sifter #1	Parson/PCM	PC5500	3,000	cubic feet/hours	Grain	1/1/1988	1/1/1988	Null	
	EQUI 21	EU122	Static Sifter #2	Parson/PCM	PC5500	3,000	cubic feet/hours	Grain	1/1/1988	1/1/1988	Null	
Silo/Bin	EQUI 50	EU158	Seed Day Bin	Custom	12' x 20'	63	tons/hours	Grain	1/1/1980	1/1/1980	Null	
	EQUI 71	EU038	Drag Conveyor to Outside Meal Bins/Harvestore	Tramco	18x20 Mod G	60	tons/hours	Grain	1/1/1995	1/1/1995	Null	
	EQUI 252	Null	River Bin 17	NA	NA	37.5	tons/hours	Grain	1/1/2000	1/1/2000	Null	
	EQUI 253	Null	River Bin 18	NA	NA	37.5	tons/hours	Grain	1/1/2000	1/1/2000	Null	

Component Groups

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 5	Null	Bulk Agricultural Rule Enclosed Handling Operations	EQUI 9	
			EQUI 13	
			EQUI 15	
			EQUI 17	
			EQUI 18	
			EQUI 19	
			EQUI 24	
			EQUI 30	
			EQUI 34	
			EQUI 37	
			EQUI 38	
			EQUI 39	
			EQUI 42	
			EQUI 43	
			EQUI 44	
			EQUI 47	
			EQUI 48	
			EQUI 53	
			EQUI 54	
			EQUI 55	
			EQUI 57	
			EQUI 58	
			EQUI 59	
			EQUI 60	
			EQUI 70	
			EQUI 71	
			EQUI 73	
			EQUI 75	
			EQUI 82	
			EQUI 85	
EQUI 86				
EQUI 109				
EQUI 110				
EQUI 246				
EQUI 247				
EQUI 248				
EQUI 249				
EQUI 250				
EQUI 252				

Component Groups

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 5	Null	Bulk Agricultural Rule Enclosed Handling Operations	EQUI 253	
			EQUI 329	
			EQUI 331	
			EQUI 332	
			EQUI 333	
			EQUI 336	
			EQUI 337	
			EQUI 338	
			EQUI 339	
			EQUI 343	
			EQUI 344	
			EQUI 345	
			EQUI 356	
			EQUI 365	
			EQUI 368	
			EQUI 378	
			EQUI 379	
			EQUI 380	
			EQUI 381	
			EQUI 382	
			EQUI 385	
			EQUI 386	
			EQUI 388	
			EQUI 389	
			EQUI 390	
			EQUI 391	
			EQUI 392	
			EQUI 396	
			EQUI 397	
			EQUI 398	
			EQUI 399	
			EQUI 400	
			EQUI 402	
EQUI 403				
EQUI 404				
EQUI 405				
EQUI 406				
EQUI 407				
EQUI 408				

Component Groups

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 5	Null	Bulk Agricultural Rule Enclosed Handling Operations	EQUI 409	
			EQUI 410	
			EQUI 411	
			EQUI 412	
			EQUI 419	
			EQUI 420	
			EQUI 421	
COMG 6	Null	Industrial Process Equipment Rule	EQUI 11	
			EQUI 20	
			EQUI 21	
			EQUI 31	
			EQUI 32	
			EQUI 33	
			EQUI 64	
			EQUI 67	
			EQUI 68	
			EQUI 69	
			EQUI 72	
			EQUI 77	
			EQUI 97	
			EQUI 100	
			EQUI 101	
			EQUI 102	
			EQUI 103	
			EQUI 104	
			EQUI 105	
			EQUI 106	
			EQUI 112	
			EQUI 115	
			EQUI 116	
EQUI 117				
EQUI 118				
EQUI 330				
EQUI 334				
EQUI 335				
EQUI 416				
EQUI 417				
EQUI 418				
COMG 7	Null	Hexane Sources	EQUI 69	

Component Groups

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 7	Null	Hexane Sources	EQUI 77	
			EQUI 124	
			EQUI 125	
COMG 8	Null	Seed Transfer/Storage Group	EQUI 34	
			EQUI 48	
			EQUI 61	
			EQUI 65	
			EQUI 80	
			EQUI 89	
			EQUI 90	
			EQUI 91	
			EQUI 339	
			EQUI 353	
			EQUI 354	
			EQUI 355	
			EQUI 356	
			EQUI 387	
			EQUI 410	
COMG 9	Null	Expeller/Conditioner Group	EQUI 50	
			EQUI 53	
			EQUI 64	
			EQUI 67	
			EQUI 97	
			EQUI 98	
			EQUI 99	
			EQUI 100	
			EQUI 101	
			EQUI 102	
			EQUI 103	
			EQUI 104	
			EQUI 105	
			EQUI 106	
			EQUI 107	
EQUI 108				
EQUI 109				
EQUI 110				
EQUI 112				
EQUI 330				
EQUI 331				

Component Groups

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 9	Null	Expeller/Conditioner Group	EQUI 332	
			EQUI 365	
			EQUI 382	
			EQUI 383	
			EQUI 384	
			EQUI 402	
			EQUI 403	
			EQUI 404	
			EQUI 405	
			EQUI 406	
			EQUI 407	
			EQUI 408	
			EQUI 419	
COMG 10	Null	Flaker Group	EQUI 11	
			EQUI 13	
			EQUI 14	
			EQUI 15	
			EQUI 17	
			EQUI 54	
			EQUI 68	
			EQUI 115	
			EQUI 116	
			EQUI 117	
			EQUI 118	
			EQUI 333	
			EQUI 378	
			EQUI 385	
			EQUI 391	
EQUI 392				
EQUI 420				
COMG 11	Null	Pellet Cooler Group	EQUI 31	
			EQUI 32	
			EQUI 33	
			EQUI 72	
			EQUI 386	
			EQUI 390	
			EQUI 396	
			EQUI 397	
EQUI 399				

Component Groups

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

Subject Item ID	Delta Designation	Description	Group Member ID	
COMG 11	Null	Pellet Cooler Group	EQUI 409	

PTE by SI

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)		
Component Group	Air Component Group	COMG 7	Null	Hexane Sources	Hexane			622.3			
					Volatile Organic Compounds			972.34			
		COMG 8	Null	Seed Transfer/Storage Group	Particulate Matter				4.99		
					PM < 2.5 micron			4.99			
					PM < 10 micron			4.99			
		COMG 10	Null	Flaker Group	Particulate Matter			29.5			
		COMG 11	Null	Pellet Cooler Group	Particulate Matter				95		
					PM < 2.5 micron			95			
					PM < 10 micron			95			
		Equipment	Aboveground Storage Tank	EQUI 124	TK001	Hexane Tank 1100	Hexane	0.0159	1.39	0	
							Volatile Organic Compounds	0.0248	2.17	0	
EQUI 125	TK002			Hexane Tank 4a	Hexane	0.022	1.93	0			
					Volatile Organic Compounds	0.0343	3.01	0			
Boiler	EQUI 76		EU059	Boiler #1	1,1,1-Trichloroethane	2e-05	8.75e-05	8.75e-05			
					1,4-Dichlorobenzene (para-)	0.0001015	0.0004447	0.0004447			
					2-Methylnaphthalene	2.03e-06	8.89e-06	8.89e-06			
					3-Methylcholanthrene	1.52e-07	6.67e-07	6.67e-07			
					7,12-Dimethylbenz[a]anthracene	1.35e-06	5.93e-06	5.93e-06			
					Acenaphthene	1.79e-06	7.82e-06	7.82e-06			
					Acenaphthylene	1.52e-07	6.67e-07	6.67e-07			
					Ammonia	0.271	1.186	1.186			
					Anthracene	2.03e-07	8.89e-07	8.89e-07			
					Arsenic compounds	1.69e-05	7.41e-05	7.41e-05			
					Benzene	0.000178	0.000778	0.000778			
					Benzo(a)anthracene	3.39e-07	1.486e-06	1.486e-06			
					Benzo(b)fluoranthene	1.25e-07	5.49e-07	5.49e-07			
					Benzo(ghi)perylene	1.91e-07	8.38e-07	8.38e-07			
					Benzo(k)fluoranthene	1.52e-07	6.67e-07	6.67e-07			
					Benzo[a]pyrene	1.02e-07	4.45e-07	4.45e-07			
					Beryllium Compounds	0.000264	0.001156	0.001156			
					Cadmium compounds	0.000264	0.001156	0.001156			
					Carbon Dioxide	14,220	62,285	62,285			
					Carbon Dioxide Equivalent	14,271	62,505	62,505			
					Carbon Monoxide	7.247	31.742	31.742			
					Chromium compounds	0.000264	0.001156	0.001156			
					Chrysene	2.01e-07	8.82e-07	8.82e-07			
					Cobalt compounds	7.11e-06	3.113e-05	3.113e-05			
					Copper	0.000528	0.002313	0.002313			
					Dibenz[a,h]anthracene	1.413e-07	6.189e-07	6.189e-07			
					Ethylbenzene	5.38e-06	2.357e-05	2.357e-05			
					Fluoranthene	4.1e-07	1.794e-06	1.794e-06			
					Fluorene	3.78e-07	1.657e-06	1.657e-06			
					Formaldehyde	0.00635	0.0278	0.0278			
					Hexane	0.152	0.0381	0.0381			
					Indeno(1,2,3-cd)pyrene	1.81e-07	7.93e-07	7.93e-07			
					Lead Compounds	4.23e-05	0.0001853	0.0001853			
					Manganese compounds	0.000528	0.002313	0.002313			
					Mercury Compounds	2.2e-05	9.64e-05	9.64e-05			
					Methane	0.195	0.852	0.852			
					Naphthalene	9.56e-05	0.0004188	0.0004188			
					Nickel compounds	0.000264	0.001156	0.001156			
					Nitrogen Oxides	13.134	57.528	57.528			
					Nitrous Oxide	0.186	0.815	0.815			
					Particulate Matter	2.167	9.492	9.492			
					Phenanthrene	1.438e-06	6.3e-06	6.3e-06			
					PM < 2.5 micron	0.6557	2.872	2.872			
					PM < 10 micron	0.6567	2.876	2.876			
					Pyrene	4.23e-07	1.853e-06	1.853e-06			
					Selenium compounds	0.00132	0.00578	0.00578			
					Sulfur Dioxide	46.627	204.226	204.226			
					Sulfuric Acid Mist	3.53e-07	1.547e-06	1.547e-06			
					Toluene	0.000525	0.002298	0.002298			
					Volatile Organic Compounds	0.4745	2.078	2.078			
					Xylenes, Total	9.22e-06	4.04e-05	4.04e-05			
					Zinc	0.000352	0.001542	0.001542			
					EQUI 78	EU066	Boiler #2	1,4-Dichlorobenzene (para-)	7.5e-05	0.000329	0.000329
2-Methylnaphthalene	1.5e-06	6.57e-06	6.57e-06								
3-Methylcholanthrene	1.13e-07	4.93e-07	4.93e-07								
7,12-Dimethylbenz[a]anthracene	1e-06	4.38e-06	4.38e-06								
Acenaphthene	1.13e-07	4.93e-07	4.93e-07								
Acenaphthylene	1.13e-07	4.93e-07	4.93e-07								
Ammonia	0.2	0.876	0.876								
Anthracene	1.5e-07	6.57e-07	6.57e-07								
Arsenic compounds	1.25e-05	5.48e-05	5.48e-05								

PTE by SI

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)				
Equipment	Boiler	EQUI 78	EU066	Boiler #2	Benzene	0.000131	0.000575	0.000575					
					Benzo(a)anthracene	1.13e-07	4.93e-07	4.93e-07					
					Benzo(b)fluoranthene	1.13e-07	4.93e-07	4.93e-07					
					Benzo(ghi)perylene	7.5e-08	3.29e-07	3.29e-07					
					Benzo(k)fluoranthene	1.13e-07	4.93e-07	4.93e-07					
					Benzo[a]pyrene	7.5e-08	3.29e-07	3.29e-07					
					Beryllium Compounds	7.5e-07	3.29e-06	3.29e-06					
					Cadmium compounds	6.88e-05	0.0003011	0.0003011					
					Carbon Dioxide	7,500	32,850	32,850					
					Carbon Dioxide Equivalent	7,545	33,045	33,045					
					Carbon Monoxide	5.353	23.45	23.45					
					Chrysene	1.13e-07	4.93e-07	4.93e-07					
					Cobalt compounds	5.25e-06	2.3e-05	2.3e-05					
					Copper	5.31e-05	0.000233	0.000233					
					Dibenz[a,h]anthracene	7.5e-08	3.29e-07	3.29e-07					
					Fluoranthene	1.88e-07	8.21e-07	8.21e-07					
					Fluorene	1.75e-07	7.67e-07	7.67e-07					
					Formaldehyde	0.00469	0.0205	0.0205					
					Hexane	0.113	0.0281	0.0281					
					Indeno(1,2,3-cd)pyrene	1.13e-07	4.93e-07	4.93e-07					
					Lead Compounds	3.13e-05	0.000137	0.000137					
					Manganese compounds	2.38e-05	0.000104	0.000104					
					Mercury Compounds	1.63e-05	7.12e-05	7.12e-05					
					Methane	0.144	0.63	0.63					
					Naphthalene	3.81e-05	0.000167	0.000167					
					Nickel compounds	0.000131	0.000575	0.000575					
					Nitrogen Oxides	6.373	27.91	27.91					
					Nitrous Oxide	0.138	0.602	0.602					
					Particulate Matter	0.484	2.121	2.121					
					Phenanthrene	1.06e-06	4.65e-06	4.65e-06					
					PM < 2.5 micron	0.484	2.121	2.121					
					PM < 10 micron	0.484	2.121	2.121					
					Pyrene	3.13e-07	1.37e-06	1.37e-06					
					Selenium compounds	1.5e-06	6.57e-06	6.57e-06					
					Sulfur Dioxide	0.0382	0.1675	0.1675					
					Toluene	0.000213	0.000931	0.000931					
					Volatile Organic Compounds	0.35	1.535	1.535					
					Zinc	0.00181	0.00794	0.00794					
					Cleaning Equipment	EQUI 87	EU076	Seed Cleaner	Particulate Matter	0.04	17.634	0.176	
									PM < 2.5 micron	0.0268	1.677	0.117	
									PM < 10 micron	0.157	9.829	0.688	
						EQUI 97	EU086	Conditioner Seed Cleaner	Particulate Matter	0.0381	16.699	0.167	
									PM < 2.5 micron	0.0254	1.588	0.111	
									PM < 10 micron	0.1488	9.308	0.652	
					Conveyor	EQUI 9	EU001	Truck Dump Drag Conveyor 1	Particulate Matter	0.0403	17.63388	0.176	
									PM < 2.5 micron	0.0268	1.677	0.117	
									PM < 10 micron	0.1571	9.82872	0.688	
						EQUI 13	EU114	Flake Bulk-Flow Feed Screw Conveyor	Particulate Matter	0.7625	16.699	0	
									PM < 2.5 micron	0.0725	1.588	0.31755	
									PM < 10 micron	0.425	9.308	1.8615	
EQUI 15	EU116	Flake Cross Screw Conveyor	Particulate Matter	0.7625		16.699	0						
			PM < 2.5 micron	0.0725		1.588	0.31755						
			PM < 10 micron	0.425		9.308	1.8615						
EQUI 17	EU118	Basement Cake Screw Conveyor	Particulate Matter	0.7625		16.699	0						
			PM < 2.5 micron	0.0725		1.588	0.31755						
			PM < 10 micron	0.425		9.308	1.8615						
EQUI 18	EU119	Horizontal Meal Drag Conveyor	Particulate Matter	0.0229		10.019	0.1						
			PM < 2.5 micron	0.0152		0.953	0.0667						
			PM < 10 micron	0.0892		5.585	0.391						
EQUI 19	EU120	Sifter Feed Screw Conveyor	Particulate Matter	0.0229		10.019	0.1						
			PM < 2.5 micron	0.0152		0.95265	0.0667						
			PM < 10 micron	0.0892		5.5845	0.391						
EQUI 24	EU125	Harvestore Feed Conveyor	Particulate Matter	0.0229		10.019	0.1						
			PM < 2.5 micron	0.0152		0.953	0.0667						
			PM < 10 micron	0.0892		5.585	0.391						
EQUI 30	EU131	S-N 24" Screw Conveyor to River	Particulate Matter	0.0229		10.019	0.1						
			PM < 2.5 micron	0.0152		0.953	0.0667						
			PM < 10 micron	0.0892		5.585	0.391						
EQUI 34	EU135	Incline Screw to Tanks 151and 152	Particulate Matter	0.0403		17.63	0						
			PM < 2.5 micron	0.0268		1.68	0						
			PM < 10 micron	0.1571		9.83	0						
EQUI 37	EU138	Rail Cross Conveyor	Particulate Matter	0.0229		10.019	0.1002						
			PM < 2.5 micron	0.0152		0.953	0.0667						
			PM < 10 micron	0.0892		5.585	0.3909						

PTE by SI

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Conveyor	EQUI 38	EU139	Rail Pit Discharge Conveyor	Particulate Matter	0.0229	10.019	0.1002	
					PM < 2.5 micron	0.0152	0.953	0.0667	
					PM < 10 micron	0.0892	5.585	0.3909	
		EQUI 39	EU140	Under Bins Conveyor to Loadout	Particulate Matter	0.101	44.35	0.44	
					PM < 2.5 micron	0.177	11.087	0.776	
					PM < 10 micron	0.179	11.17	0.782	
		EQUI 42	EU143	Harvestore Discharge Conveyor	Particulate Matter	0.0229	10.019	0.1	
					PM < 2.5 micron	0.0152	0.953	0.0667	
					PM < 10 micron	0.0892	5.585	0.391	
		EQUI 43	EU144	Harvestore Discharge Inclined Conveyor	Particulate Matter	0.0229	10.019	0.1	
					PM < 2.5 micron	0.0152	0.953	0.0667	
					PM < 10 micron	0.0892	5.585	0.391	
		EQUI 47	EU152	N-S Rail Belt Conveyor	Particulate Matter	0.0403	17.634	0.176	
					PM < 2.5 micron	0.0268	1.677	0.117	
					PM < 10 micron	0.157	9.829	0.688	
		EQUI 48	EU151	Screw Conveyor to Bins 1-6	Particulate Matter	0.0403	17.634	0	
					PM < 2.5 micron	0.0268	1.677	0	
					PM < 10 micron	0.1571	9.829	0	
		EQUI 49	EU155	Dryer Feed Screw Conveyor	Particulate Matter	0.0403	17.634	0.176	
					PM < 2.5 micron	0.0268	1.677	0.117	
					PM < 10 micron	0.1571	9.829	0.688	
		EQUI 53	EU159	Flaker Feed Conveyor	Particulate Matter	0.7625	16.699	0	
					PM < 2.5 micron	0.0725	1.588	0	
					PM < 10 micron	0.425	9.308	0	
		EQUI 54	EU160	Flaker Collect Conveyor	Particulate Matter	0.7625	16.699	0	
					PM < 2.5 micron	0.0725	1.588	0.31755	
					PM < 10 micron	0.425	9.308	1.8615	
		EQUI 59	EU165	Drag Conveyor to Inside Bins	Particulate Matter	0.0229	10.019	0.1	
					PM < 2.5 micron	0.0152	0.953	0.067	
					PM < 10 micron	0.0892	5.585	0.391	
		EQUI 60	EU166	L-Path Conveyor Under Bins	Particulate Matter	0.0229	10.019	0.1	
					PM < 2.5 micron	0.0152	0.953	0.067	
					PM < 10 micron	0.0892	5.585	0.391	
		EQUI 61	EU167	Drag Conveyor to Rail	Particulate Matter	0.0229	10.019	0	
					PM < 2.5 micron	0.0152	0.953	0	
					PM < 10 micron	0.0893	5.585	0	
		EQUI 62	EU168	Truck Meal Loadout Drag Conveyor	Particulate Matter	2.106	44.348	9.224	
					PM < 2.5 micron	2.592	44.348	11.353	
					PM < 10 micron	2.592	44.348	11.353	
		EQUI 63	EU169	Traveling Enclosed Belt Conveyor/Rail Loadout	Particulate Matter	2.106	44.348	9.224	
					PM < 2.5 micron	2.592	44.348	11.353	
					PM < 10 micron	2.592	44.348	11.353	
		EQUI 70	EU034	Meal Incline Drag Conveyor from Ext.	Particulate Matter	0.0229	10.019	0.1002	
					PM < 2.5 micron	0.0152	0.953	0.0667	
					PM < 10 micron	0.0892	5.585	0.3909	
		EQUI 75	EU044	River Bin Feed Drag Conveyor(Tank 17)	Particulate Matter	0.0229	10.01925	0.1002	
					PM < 2.5 micron	0.0152	0.95265	0.0667	
					PM < 10 micron	0.0892	5.5845	0.3909	
		EQUI 81	EU070	Rail Pit Conveyor #2	Particulate Matter	2.112	9.2506	9.2506	
					PM < 2.5 micron	0.0858	0.3758	0.3758	
					PM < 10 micron	0.5148	2.2548	2.2548	
		EQUI 85	EU074	Tank 1000 Discharge Drag Conveyor	Particulate Matter	0.04	17.634	0.176	
					PM < 2.5 micron	0.0268	1.677	0.117	
					PM < 10 micron	0.157	9.829	0.688	
		EQUI 86	EU075	Drag Conveyor to Meal Bins	Particulate Matter	0.023	10.019	0.1	
					PM < 2.5 micron	0.015	0.953	0.0667	
					PM < 10 micron	0.089	5.585	0.391	
		EQUI 90	EU079	Drag Conveyor to Seed Bins	Particulate Matter	0.0403	17.634	0	
					PM < 2.5 micron	0.0268	1.677	0	
					PM < 10 micron	0.1571	9.829	0	
		EQUI 91	EU080	Drag Conveyor from Bins	Particulate Matter	0.0403	17.634	0	
					PM < 2.5 micron	0.0268	1.677	0	
					PM < 10 micron	0.1571	9.829	0	
		EQUI 98	EU087	Drag Conveyor to Conditioners	Particulate Matter	0.7625	16.699	0	
					PM < 2.5 micron	0.0725	1.588	0	
					PM < 10 micron	0.425	9.308	0	
		EQUI 99	EU088	Cross Conveyor to Conditioner #1	Particulate Matter	0.7625	16.699	0	
					PM < 2.5 micron	0.0725	1.588	0	
					PM < 10 micron	0.425	9.308	0	
		EQUI 108	EU101	Rerun Screw Conveyor to Day Bin	Particulate Matter	0.7625	16.699	0	
					PM < 2.5 micron	0.0725	1.588	0	
					PM < 10 micron	0.425	9.308	0	
		EQUI 109	EU102	Cake Drag Conveyor 1-8 (1-5 Anderson/K3 Cake Drag #1 N-S)	Particulate Matter	0.7625	16.699	0	
					PM < 2.5 micron	0.0725	1.588	0	

PTE by SI

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)
 Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Conveyor	EQUI 109	EU102	1-5 Anderson/K3 Cake Drag #1 N-S)	PM < 10 micron	0.425	9.308	0	
					Particulate Matter	0.7625	16.699	0	
						PM < 2.5 micron	0.0725	1.588	0
		EQUI 110	EU103	Cake Drag Cross Conveyor (1-5 Anderson/K3 Cake Drag #1 E-W)	PM < 10 micron	0.425	9.308	0	
					Particulate Matter	0.4805	10.1178	2.1045	
						PM < 2.5 micron	0.022	0.3758	0.0962
		EQUI 120	EU002	Truck Dump Drag Conveyor 2	PM < 10 micron	0.1318	2.2548	0.5772	
					Particulate Matter	2.112	9.2506	9.2506	
						PM < 2.5 micron	0.0858	0.3758	0.3758
		EQUI 121	EU003	Rail Pit Belt Conveyor 1	PM < 10 micron	0.5148	2.2548	2.2548	
					Particulate Matter	0.1013	44.3475	0.443	
						PM < 2.5 micron	0.1772	11.0869	0.776
		EQUI 246	EU147	Enclosed Drag Conveyor	PM < 10 micron	0.1785	11.169	0.782	
					Particulate Matter	0.0403	17.6339	0.1763	
						PM < 2.5 micron	0.0268	1.6767	0.1174
		EQUI 247	EU179	Belt Conveyor to Process Silo	PM < 10 micron	0.1571	9.8287	0.688	
					Particulate Matter	0.04	17.6339	0.176	
						PM < 2.5 micron	0.0268	1.6767	0.117
		EQUI 249	EU181	TK1000 Belt Conveyor #1	PM < 10 micron	0.157	9.8287	0.688	
					Particulate Matter	0.04	17.6339	0.176	
						PM < 2.5 micron	0.027	1.6767	0.117
		EQUI 250	EU182	TK1000 Belt Conveyor #2	PM < 10 micron	0.157	9.8287	0.688	
					Particulate Matter	0.038	16.699	0.167	
						PM < 2.5 micron	0.025	1.588	0.111
		EQUI 329	Null	Bridge Drag Conveyor	PM < 10 micron	0.149	9.308	0.652	
					Particulate Matter	0.7625	16.699	0	
						PM < 2.5 micron	0.0725	1.588	0
		EQUI 331	EU090	Runaround Bulk-Flow to Expellers	PM < 10 micron	0.425	9.308	0	
					Particulate Matter	0.7625	16.699	0	
						PM < 2.5 micron	0.0725	1.588	0
		EQUI 332	EU113	Flake Overflow Bulk-Flow	PM < 10 micron	0.425	9.308	0	
					Particulate Matter	0.7625	16.699	0	
						PM < 2.5 micron	0.0725	1.588	0
		EQUI 333	EU115	Flake Bulk-Flow	PM < 10 micron	0.425	9.308	0	
					Particulate Matter	0.7625	16.699	0	
						PM < 2.5 micron	0.0725	1.588	0.31755
		EQUI 336	EU126	Pellet Conveyor Top of Bins 3-6	PM < 10 micron	0.425	9.308	1.8615	
					Particulate Matter	0.0229	10.0193	0.1002	
						PM < 2.5 micron	0.0152	0.9527	0.0667
		EQUI 337	EU127	Meal Screw from 24" Rev. Screw to East	PM < 10 micron	0.0892	5.5845	0.3909	
					Particulate Matter	0.0229	10.0193	0.1002	
						PM < 2.5 micron	0.0152	0.9527	0.0667
		EQUI 338	EU129	Meal Hi-Roller East-West	PM < 10 micron	0.0892	5.5845	0.3909	
					Particulate Matter	0.0229	10.019	0	
						PM < 2.5 micron	0.0152	0.953	0
		EQUI 339	EU130	24" Reversing Screw E-W or W-E	PM < 10 micron	0.0893	5.585	0	
					Particulate Matter	0.4575	10.0193	2.0039	
						PM < 2.5 micron	0.0435	0.9527	0.1905
		EQUI 343	EU136	Cross Screw to Pellet Leg 1st Floor	PM < 10 micron	0.255	5.5845	1.1169	
					Particulate Matter	0.101	44.35	0.44	
						PM < 2.5 micron	0.177	11.0869	0.776
		EQUI 344	EU141	Tramco Drag Under Inside Meal Bins	PM < 10 micron	0.177	11.09	0.776	
Particulate Matter	0.0229				10.0193	0.1002			
	PM < 2.5 micron				0.0152	0.9527	0.0667		
EQUI 345	EU142	Goliath Underloader	PM < 10 micron	0.0892	5.5845	0.3909			
			Particulate Matter	2.106	44.3475	9.2243			
				PM < 2.5 micron	2.592	44.3475	11.353		
EQUI 351	EU043	S-N Tramco Drag to Barge Loading	PM < 10 micron	2.592	44.3475	11.353			
			Particulate Matter	0.0403	17.634	0			
				PM < 2.5 micron	0.0268	1.677	0		
EQUI 353	EU081	Screw N-S to Tanks 151 and 152	PM < 10 micron	0.1571	9.829	0			
			Particulate Matter	0.0403	17.634	0			
				PM < 2.5 micron	0.0268	1.677	0		
EQUI 354	EU082	Screw From Tank 151 to 152	PM < 10 micron	0.1571	9.829	0			
			Particulate Matter	0.0403	17.634	0			
				PM < 2.5 micron	0.0268	1.677	0		
EQUI 355	EU083	151 and 152 Discharge Screw W-E	PM < 10 micron	0.1571	9.829	0			
			Particulate Matter	0.0403	17.634	0			
				PM < 2.5 micron	0.0268	1.677	0		
EQUI 356	EU084	Screw from Tank 151 to Truck Dump Leg	PM < 10 micron	0.1571	9.829	0			
			Particulate Matter	0.0403	17.634	0			
				PM < 2.5 micron	0.0268	1.677	0		
EQUI 365	EU104	Cake Bulk-Flow	PM < 10 micron	0.425	9.308	0			
			Particulate Matter	0.7625	16.699	0			
				PM < 2.5 micron	0.0725	1.588	0		
EQUI 368	EU005	Park Track Bulk Flow	PM < 10 micron	0.0229	10.0193	0.1002			
			Particulate Matter	0.0229	10.0193	0.1002			
				PM < 2.5 micron	0.0229	10.0193	0.1002		

PTE by SI

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)
 Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Conveyor	EQUI 368	EU005	Park Track Bulk Flow	PM < 2.5 micron	0.0152	0.9527	0.0667	
					PM < 10 micron	0.0892	5.5845	0.3909	
		EQUI 378	Null	Canola Overflow Discharge Conveyor	Particulate Matter	0.2288	5.01	0	
					PM < 2.5 micron	0.0218	0.476	0.095265	
		EQUI 379	Null	Spent Flake Bulk Flow	Particulate Matter	0.458	10.02	2	
					PM < 2.5 micron	0.0435	0.9527	0.1905	
		EQUI 380	Null	DTDC Discharge Conveyor	PM < 10 micron	0.255	5.58	1.12	
					Particulate Matter	0.4575	10.0193	2.0039	
		EQUI 381	Null	Incline Conveyor to Final Meal Leg	PM < 2.5 micron	0.0435	0.9527	0.1905	
					PM < 10 micron	0.255	5.5845	1.1169	
		EQUI 382	Null	#1 Conditioner Feed Screw	Particulate Matter	0.4575	10.0193	2.0039	
					PM < 2.5 micron	0.0725	1.699	0	
		EQUI 383	Null	#2 Conditioner Feed Screw	PM < 10 micron	0.425	9.308	0	
					Particulate Matter	0.7625	16.699	0	
		EQUI 384	Null	Conditioner Rotex Feed Screw Conveyor	PM < 2.5 micron	0.0725	1.588	0	
					PM < 10 micron	0.425	9.308	0	
		EQUI 385	Null	Flake Bulk Flow Discharge Conveyor #2	Particulate Matter	0.7625	16.699	0	
					PM < 2.5 micron	0.0725	1.588	0.31755	
		EQUI 387	Null	Bin 22 Discharge Conveyor	PM < 10 micron	0.425	9.308	1.8615	
					Particulate Matter	0.0403	17.634	0	
		EQUI 388	Null	DTDC Feed Conveyor	PM < 2.5 micron	0.0268	1.677	0	
					PM < 10 micron	0.1571	9.829	0	
		EQUI 389	Null	Extraction Plug Screw	Particulate Matter	0.458	10.02	2	
					PM < 2.5 micron	0.044	0.95	0.19	
		EQUI 390	Null	Feed Screw to 600HP Pellet Mill	PM < 10 micron	0.255	5.58	1.12	
					Particulate Matter	0.763	16.7	3.34	
		EQUI 391	Null	Flake Bulkflow Discharge #1	PM < 2.5 micron	0.073	1.59	0.32	
					PM < 10 micron	0.425	9.31	1.86	
		EQUI 392	Null	Flake Discharge Overflow Bulkflow	Particulate Matter	12.57	275.283	0	
					PM < 2.5 micron	6.29	137.642	0	
		EQUI 393	Null	Grain Dryer Discharge Screw E & W	PM < 10 micron	6.29	137.642	0	
					Particulate Matter	0.7625	16.699	0	
		EQUI 394	Null	Pellet Cooler Feed Screw	PM < 2.5 micron	0.0725	1.588	0.31755	
					PM < 10 micron	0.425	9.308	1.8615	
		EQUI 395	Null	Flake Discharge Overflow Bulkflow	Particulate Matter	0.2288	5.01	0	
					PM < 2.5 micron	0.02175	0.476	0.095265	
		EQUI 396	Null	Grain Dryer Discharge Screw E & W	PM < 10 micron	0.1275	2.792	0.55845	
					Particulate Matter	0.0403	17.634	0.176	
		EQUI 397	Null	Pellet Mill 250HP West Feed Screw	PM < 2.5 micron	0.0268	1.677	0.117	
					PM < 10 micron	0.1571	9.829	0.688	
		EQUI 398	Null	Pellet Cooler Feed Screw	Particulate Matter	14.4	315.36	0	
					PM < 2.5 micron	7.2	157.68	0	
		EQUI 399	Null	Pellet Mill 250HP East Feed Screw	PM < 10 micron	7.2	157.68	0	
					Particulate Matter	2.93	64.233	0	
		EQUI 400	Null	Process Silo Belt Conveyor	PM < 2.5 micron	1.47	32.116	0	
					Particulate Matter	4.026	17.634	17.634	
		EQUI 401	Null	Process Silo Rotex Feed Screw Conveyor	PM < 2.5 micron	0.383	1.677	1.677	
					PM < 10 micron	2.244	9.829	9.829	
EQUI 402	Null	Feed Screw, Anderson #1	Particulate Matter	2.93	64.233	0			
			PM < 2.5 micron	1.4665	32.116	0			
EQUI 403	Null	Feed Screw, Anderson #2	PM < 10 micron	1.4665	32.116	0			
			Particulate Matter	0.0381	16.699	0.167			
EQUI 404	Null	Feed Screw, Anderson #3	PM < 2.5 micron	0.0254	1.588	0.111			
			PM < 10 micron	0.1488	9.308	0.652			

PTE by SI

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)	
Equipment	Conveyor	EQUI 405	Null	Feed Screw, Anderson #4	Particulate Matter	0.1037	2.271	0		
					PM < 2.5 micron	0.0099	0.216	0		
					PM < 10 micron	0.0578	1.266	0		
		EQUI 406	Null	Feed Screw, Anderson #5	Particulate Matter	0.1037	2.271	0		
					PM < 2.5 micron	0.0099	0.216	0		
					PM < 10 micron	0.0578	1.266	0		
		EQUI 407	Null	Feed Screw, Krupp #2	Particulate Matter	0.366	8.015	0		
					PM < 2.5 micron	0.0348	0.762	0		
					PM < 10 micron	0.204	4.468	0		
		EQUI 408	Null	Feed Screw, Krupp #3	Particulate Matter	0.366	8.015	0		
					PM < 2.5 micron	0.0348	0.762	0		
					PM < 10 micron	0.204	4.468	0		
		EQUI 409	Null	Pellet Cooler Discharge Conveyor	Particulate Matter	0.4575	10.019	0		
					PM < 2.5 micron	0.0435	0.953	0		
					PM < 10 micron	0.255	5.585	0		
		EQUI 419	Null	Feed Screw, Krupp #1	Particulate Matter	0.366	8.015	0		
					PM < 2.5 micron	0.0348	0.762	0		
					PM < 10 micron	0.204	4.468	0		
		EQUI 420	Null	Canola OverFlow Bulk Flow	Particulate Matter	0.045	0.986	0		
					PM < 2.5 micron	0.0042804	0.0937	0.018748152		
					PM < 10 micron	0.025092	0.55	0.10990296		
		EQUI 421	Null	Process Silo Rotex Discharge Drag	Particulate Matter	0.04	17.63	0.18		
					PM < 2.5 micron	0.027	1.68	0.12		
					PM < 10 micron	0.157	9.83	0.69		
		Cooler	EQUI 72	EU041	Pellet Cooler	Particulate Matter	14.4	315.36	0	
						PM < 2.5 micron	7.2	157.68	0	
						PM < 10 micron	7.2	157.68	0	
						Sulfur Dioxide	0.36	1.57	1.57	
						Particulate Matter	7.125	156.038	31.208	
						PM < 2.5 micron	7.125	156.038	31.208	
		EQUI 418	Null	DC Cooler	Particulate Matter	7.125	156.038	31.208		
					PM < 2.5 micron	7.125	156.038	31.208		
					PM < 10 micron	7.125	156.038	31.208		
		Dryer/Oven, indirect fired	EQUI 416	Null	DC Dryer #1	Particulate Matter	6.75	147.825	29.565	
						PM < 2.5 micron	6.75	147.825	29.565	
						PM < 10 micron	6.75	147.825	29.565	
EQUI 417	Null		DC Dryer #2	Particulate Matter	6.75	147.825	29.565			
				PM < 2.5 micron	6.75	147.825	29.565			
				PM < 10 micron	6.75	147.825	29.565			
Elevator	Elevator	EQUI 44	EU145	Harvestore Discharge Elevator Leg	Particulate Matter	0.0229	10.019	0.1		
					PM < 2.5 micron	0.0152	0.953	0.0667		
					PM < 10 micron	0.0892	5.585	0.391		
		EQUI 46	EU150	Inside Silo Elevator Leg	Particulate Matter	0.04	17.634	0.176		
					PM < 2.5 micron	0.0268	1.677	0.117		
					PM < 10 micron	0.157	9.829	0.688		
		EQUI 55	EU161	Final Meal Elevator Leg	Particulate Matter	0.0229	10.019	0.1		
					PM < 2.5 micron	0.0152	0.953	0.067		
					PM < 10 micron	0.0892	5.585	0.391		
		EQUI 57	EU163	Pellet Elevator Leg	Particulate Matter	0.0229	10.019	0.1		
					PM < 2.5 micron	0.0152	0.953	0.067		
					PM < 10 micron	0.0892	5.585	0.391		
		EQUI 58	EU164	Elevator Leg to Harvestore	Particulate Matter	0.0229	10.019	0.1		
					PM < 2.5 micron	0.0152	0.953	0.067		
					PM < 10 micron	0.0892	5.585	0.391		
		EQUI 65	EU011	Elevator Leg	Particulate Matter	0.0403	17.634	0		
					PM < 2.5 micron	0.0268	1.677	0		
					PM < 10 micron	0.1571	9.829	0		
		EQUI 73	EU042	River Bin Elevator Leg	Particulate Matter	0.0229	10.01925	0.1002		
					PM < 2.5 micron	0.0152	0.95265	0.0667		
					PM < 10 micron	0.0892	5.5845	0.3909		
		EQUI 80	EU069	Truck Dump Elevator Leg #2	Particulate Matter	0.0403	17.634	0		
					PM < 2.5 micron	0.0268	1.677	0		
					PM < 10 micron	0.1571	9.829	0		
		EQUI 82	EU071	Rail Seed Elevator Leg	Particulate Matter	0.0403	17.6339	0.1763		
					PM < 2.5 micron	0.0268	1.6767	0.1174		
					PM < 10 micron	0.1571	9.8287	0.688		
		EQUI 89	EU078	160' Leg at Flour Mill Elevator	Particulate Matter	0.0403	17.634	0		
					PM < 2.5 micron	0.0268	1.677	0		
					PM < 10 micron	0.1571	9.829	0		
		EQUI 107	EU100	Rerun Seed Elevator Leg	Particulate Matter	0.7625	16.699	0		
					PM < 2.5 micron	0.0725	1.588	0		
					PM < 10 micron	0.425	9.308	0		
		EQUI 248	EU180	Rail Elevator Leg	Particulate Matter	0.04	17.6339	0.176		
					PM < 2.5 micron	0.0268	1.6767	0.117		
					PM < 10 micron	0.157	9.8287	0.688		
EQUI 370	EU156	Dryer Discharge Elevator	Particulate Matter	0.038	16.699	0.167				

PTE by SI

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Elevator	EQUI 370	EU156	Dryer Discharge Elevator Leg	PM < 2.5 micron	0.025	1.588	0.111	
					PM < 10 micron	0.149	9.308	0.652	
	Extractor	EQUI 67	EU023	K1 Expeller	Particulate Matter	0.366	8.015	0	
					PM < 2.5 micron	0.0348	0.762	0	
					PM < 10 micron	0.204	4.468	0	
					Sulfur Dioxide	0.74	3.23	1.55	
		EQUI 77	EU065	Extractor	Hexane	157.86	691.44	0	
					Volatile Organic Compounds	246.66	1,080.38	0	
		EQUI 101	EU091	K2 Expeller	Particulate Matter	0.366	8.015	0	
					PM < 2.5 micron	0.0348	0.762	0	
					PM < 10 micron	0.204	4.468	0	
					Sulfur Dioxide	0.74	3.23	1.55	
		EQUI 102	EU092	#1 Expeller	Particulate Matter	0.1037	2.271	0	
					PM < 2.5 micron	0.0099	0.216	0	
					PM < 10 micron	0.0578	1.266	0	
					Sulfur Dioxide	0.21	0.92	0.12	
		EQUI 103	EU093	#2 Expeller	Particulate Matter	0.1037	2.271	0	
					PM < 2.5 micron	0.0099	0.216	0	
	PM < 10 micron				0.0578	1.266	0		
	Sulfur Dioxide				0.21	0.92	0.12		
	EQUI 104	EU094	#3 Expeller	Particulate Matter	0.1037	2.271	0		
				PM < 2.5 micron	0.0099	0.216	0		
				PM < 10 micron	0.0578	1.266	0		
				Sulfur Dioxide	0.21	0.92	0.12		
	EQUI 105	EU095	#4 Expeller	Particulate Matter	0.1037	2.271	0		
				PM < 2.5 micron	0.0099	0.216	0		
				PM < 10 micron	0.0578	1.266	0		
				Sulfur Dioxide	0.21	0.92	0.12		
	EQUI 106	EU096	#5 Expeller	Particulate Matter	0.1037	2.271	0		
				PM < 2.5 micron	0.0099	0.216	0		
				PM < 10 micron	0.0578	1.266	0		
				Sulfur Dioxide	0.21	0.92	0.12		
	Flaker Equipment	EQUI 11	EU112	#6 Flaker	Particulate Matter	0.0222	0.486	0	
					PM < 2.5 micron	0.0222	0.486	0.097236	
					PM < 10 micron	0.0222	0.486	0.097236	
		EQUI 14	EU115	Flake Bulk-Flow	Particulate Matter	0.7625	16.7	0	
					PM < 2.5 micron	0.073	1.59	0.3176	
					PM < 10 micron	0.425	9.31	1.8615	
		EQUI 68	EU025	#1 Flaker	Particulate Matter	0.0222	0.486	0	
					PM < 2.5 micron	0.0222	0.486	0.097236	
					PM < 10 micron	0.0222	0.486	0.097236	
		EQUI 115	EU108	#2 Flaker	Particulate Matter	0.0222	0.4862	0	
					PM < 2.5 micron	0.0222	0.4862	0.097236	
					PM < 10 micron	0.0222	0.4862	0.097236	
		EQUI 116	EU109	#3 Flaker	Particulate Matter	0.0222	0.4862	0	
					PM < 2.5 micron	0.0222	0.4862	0.097236	
					PM < 10 micron	0.0222	0.4862	0.097236	
EQUI 117		EU110	#4 Flaker	Particulate Matter	0.0222	0.4862	0		
				PM < 2.5 micron	0.0222	0.4862	0.097236		
				PM < 10 micron	0.0222	0.4862	0.097236		
EQUI 118	EU111	#5 Flaker	Particulate Matter	0.0222	0.4862	0			
			PM < 2.5 micron	0.0222	0.4862	0.097236			
			PM < 10 micron	0.0222	0.4862	0.097236			
Material Handling Equipment	EQUI 410	Null	Top Vents - Flour Mill Elevator Silos	Particulate Matter	0.0403	17.63	0		
				PM < 2.5 micron	0.0268	1.68	0		
				PM < 10 micron	0.1571	9.83	0		
	EQUI 411	Null	Top Vents - Inside/Outside Meal Bins/Harvestore	Particulate Matter	0.023	10.02	0.1		
				PM < 2.5 micron	0.015	0.95	0.067		
				PM < 10 micron	0.089	5.58	0.391		
	EQUI 412	Null	Top Vents - Process Elevator Silos	Particulate Matter	0.04	17.63	0.176		
				PM < 2.5 micron	0.027	1.68	0.117		
				PM < 10 micron	0.157	9.83	0.688		
	EQUI 413	Null	Top Vents - Tank 1000	Particulate Matter	1.65	7.227	7.227		
				PM < 2.5 micron	0.0726	0.318	0.318		
				PM < 10 micron	0.4158	1.8212	1.8212		
	EQUI 414	Null	Top Vents - Tank 151	Particulate Matter	1.65	7.227	7.227		
				PM < 2.5 micron	0.0726	0.318	0.318		
				PM < 10 micron	0.4158	1.8212	1.8212		
	EQUI 415	Null	Top Vents - Tank 152	Particulate Matter	1.65	7.227	7.227		
				PM < 2.5 micron	0.0726	0.318	0.318		
				PM < 10 micron	0.4158	1.8212	1.8212		
Mechanical Processing	EQUI 334	EU123	Meal Grinder #1	Particulate Matter	0.6375	279.225	2.7923		
				PM < 2.5 micron	4.4625	279.225	19.5458		
				PM < 10 micron	4.4625	279.225	19.5458		

PTE by SI

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Mechanical Processing	EQUI 335	EU124	Meal Grinder #2	Particulate Matter	0.6375	279.225	2.7923	
					PM < 2.5 micron	4.4625	279.225	19.5458	
					PM < 10 micron	4.4625	279.225	19.5458	
	Milling Equipment	EQUI 31	EU132	Pellet Mill 600 HP	Particulate Matter	12.57	275.283	0	
					PM < 2.5 micron	12.57	275.283	0	
					PM < 10 micron	12.57	275.283	0	
		EQUI 32	EU133	Pellet Mill E 250 HP	Particulate Matter	2.933	64.233	0	
					PM < 2.5 micron	1.467	32.116	0	
					PM < 10 micron	1.467	32.116	0	
		EQUI 33	EU134	Pellet Mill W 250 HP	Particulate Matter	2.933	64.233	0	
					PM < 2.5 micron	1.467	32.116	0	
					PM < 10 micron	1.467	32.116	0	
		EQUI 112	EU105	Cake Hammermill	Particulate Matter	0.0925	2.0258	0	
					PM < 2.5 micron	0.0925	2.0258	0	
					PM < 10 micron	0.0925	2.0258	0	
	Mixing Equipment	EQUI 386	Null	1st Mixer Screw to 600HP Pellet Mill	Particulate Matter	12.57	275.283	0	
					PM < 2.5 micron	6.29	137.642	0	
					PM < 10 micron	6.29	137.642	0	
	Other Emission Unit	EQUI 64	EU176	Conditioner #1	Particulate Matter	0.625	13.688	0	
					PM < 2.5 micron	0.625	13.688	0	
					PM < 10 micron	0.625	13.688	0	
		EQUI 69	EU033	Desolventizer-Toaster	Hexane	157.86	691.44	0	
					Volatile Organic Compounds	246.66	1,080.38	0	
		EQUI 100	EU089	Conditioner #2	Particulate Matter	0.625	13.688	0	
					PM < 2.5 micron	0.625	13.688	0	
					PM < 10 micron	0.625	13.688	0	
		EQUI 369	EU019	Column Dryer with Screen Airs	Particulate Matter	13.75	60.225	60.225	
					PM < 2.5 micron	2.313	10.129	10.129	
					PM < 10 micron	3.438	15.056	15.056	
		Pressing Equipment	EQUI 330	EU178	K3 Expeller	Particulate Matter	0.366	8.015	0
	PM < 2.5 micron					0.0348	0.762	0	
	PM < 10 micron					0.204	4.468	0	
	Sulfur Dioxide					0.74	3.23	1.55	
	Reciprocating IC Engine	EQUI 372	Null	Emergency Generator	1,3-Butadiene	8.7e-05	2.17e-05	2.17e-05	
					Acenaphthene	3.16e-06	7.9e-07	7.9e-07	
					Acenaphthylene	2.05e-05	5.13e-06	5.13e-06	
					Acrolein	0.000206	5.14e-05	5.14e-05	
					Ammonia	0.0481	0.012	0.012	
					Anthracene	4.16e-06	1.04e-06	1.04e-06	
					Arsenic compounds	8.9e-06	2.22e-06	2.22e-06	
					Benzene	0.00214	0.000535	0.000535	
					Benzo(a)anthracene	2.52e-08	6.31e-09	6.31e-09	
					Benzo(b)fluoranthene	2.2e-07	5.51e-08	5.51e-08	
					Benzo(ghi)perylene	1.09e-06	2.72e-07	2.72e-07	
					Benzo(k)fluoranthene	3.45e-07	8.62e-08	8.62e-08	
					Benzo[a]pyrene	4.18e-07	1.05e-07	1.05e-07	
					Beryllium Compounds	6.67e-06	1.67e-06	1.67e-06	
Cadmium compounds					1.07e-05	2.67e-06	2.67e-06		
Carbon Dioxide					364.7	1,598	1,598		
Carbon Dioxide Equivalent					366	1,603	1,603		
Carbon Monoxide					0.121	0.528	0.528		
Chrysene					1.99e-07	4.98e-08	4.98e-08		
Copper					1.33e-05	3.34e-06	3.34e-06		
Dibenz[a,h]anthracene					1.3e-06	3.24e-07	3.24e-07		
Ethylbenzene					5.1e-05	1.27e-05	1.27e-05		
Fluoranthene					2.17e-06	5.44e-07	5.44e-07		
Fluorene					6.49e-05	1.62e-05	1.62e-05		
Formaldehyde					0.0011	0.000275	0.000275		
Indeno(1,2,3-cd)pyrene					8.34e-07	2.09e-07	2.09e-07		
Manganese compounds					0.00176	0.000439	0.000439		
Mercury Compounds					2.67e-06	6.67e-07	6.67e-07		
Methane					0.0147	0.0644	0.0644		
Naphthalene					0.000214	5.35e-05	5.35e-05		
Nickel compounds					6.67e-06	1.67e-06	1.67e-06		
Nitrogen Oxides					0.56	2.452	2.452		
Nitrous Oxide					0.00294	0.01288	0.01288		
Particulate Matter					0.0394	0.172	0.172		
Phenanthrene					6.54e-05	1.63e-05	1.63e-05		
PM < 2.5 micron					0.0394	0.172	0.172		
PM < 10 micron					0.0394	0.172	0.172		
Propylene oxide					0.00574	0.00143	0.00143		
Pyrene					1.06e-05	2.66e-06	2.66e-06		
Selenium compounds					3.34e-05	8.34e-06	8.34e-06		
Sulfur Dioxide	0.00019	0.000834	0.000834						

PTE by SI

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)			
Equipment	Reciprocating IC Engine	EQUI 372	Null	Emergency Generator	Toluene	0.000641	0.00016	0.00016				
					Volatile Organic Compounds	0.0467	0.205	0.205				
					Xylenes, Total	0.000114	2.84e-05	2.84e-05				
					Zinc	8.9e-06	2.22e-06	2.22e-06				
		EQUI 375	Null	North Fire Pump	1,3-Butadiene	3.34e-05	8.34e-06	8.34e-06				
					Acenaphthene	2.96e-06	7.4e-07	7.4e-07				
					Acenaphthylene	1.92e-05	4.81e-06	4.81e-06				
					Acetaldehyde	0.0016	0.0004	0.0004				
					Acrolein	0.000193	4.82e-05	4.82e-05				
					Ammonia	0.00593	0.00148	0.00148				
					Anthracene	3.9e-06	9.7e-07	9.7e-07				
					Arsenic compounds	8.34e-06	2.09e-06	2.09e-06				
					Benzene	0.00195	0.000486	0.000486				
					Benzo(a)anthracene	3.5e-06	8.76e-07	8.76e-07				
					Benzo(b)fluoranthene	2.07e-07	5.2e-08	5.2e-08				
					Benzo(ghi)perylene	1.02e-06	2.55e-07	2.55e-07				
					Benzo(k)fluoranthene	3.23e-07	8.08e-08	8.08e-08				
					Benzo(a)pyrene	3.92e-07	9.8e-08	9.8e-08				
					Beryllium Compounds	6.26e-06	1.56e-06	1.56e-06				
					Cadmium compounds	1e-05	2.5e-06	2.5e-06				
					Carbon Dioxide	341.9	1.498	1.498				
					Carbon Dioxide Equivalent	343.1	1,502.8	1,502.8				
					Carbon Monoxide	0.113	0.495	0.495				
					Chrysene	7.36e-07	1.84e-07	1.84e-07				
					Copper	1.25e-05	3.13e-06	3.13e-06				
					Dibenz[a,h]anthracene	1.22e-06	3.04e-07	3.04e-07				
					Fluoranthene	1.59e-05	3.97e-06	3.97e-06				
					Fluorene	6.09e-05	1.52e-05	1.52e-05				
					Formaldehyde	0.00246	0.000615	0.000615				
					Indeno(1,2,3-cd)pyrene	7.82e-07	1.95e-07	1.95e-07				
					Manganese compounds	0.00165	0.000412	0.000412				
					Mercury Compounds	2.5e-06	6.26e-07	6.26e-07				
					Methane	0.0138	0.0604	0.0604				
					Naphthalene	0.000177	4.42e-05	4.42e-05				
					Nickel compounds	6.26e-06	1.56e-06	1.56e-06				
					Nitrogen Oxides	0.525	2.299	2.299				
					Nitrous Oxide	0.00276	0.0121	0.0121				
					Particulate Matter	0.0369	0.162	0.162				
					Phenanthrene	6.13e-05	1.53e-05	1.53e-05				
					PM < 2.5 micron	0.0369	0.162	0.162				
					PM < 10 micron	0.0369	0.162	0.162				
					Propylene oxide	0.00538	0.00134	0.00134				
					Pyrene	1e-05	2.49e-06	2.49e-06				
					Selenium compounds	3.13e-05	7.82e-06	7.82e-06				
					Sulfur Dioxide	0.0001785	0.0007819	0.0007819				
					Toluene	0.000853	0.000213	0.000213				
					Volatile Organic Compounds	0.0438	0.192	0.192				
					Xylenes, Total	0.000594	0.000149	0.000149				
					Zinc	8.34e-06	2.09e-06	2.09e-06				
					EQUI 376	Null	South Fire Pump	1,3-Butadiene	3.34e-05	8.34e-06	8.34e-06	
								Acenaphthene	2.96e-06	7.4e-07	7.4e-07	
								Acenaphthylene	1.92e-05	4.81e-06	4.81e-06	
Acetaldehyde	0.0016	0.0004	0.0004									
Acrolein	0.000193	4.82e-05	4.82e-05									
Ammonia	0.00593	0.00148	0.00148									
Anthracene	3.9e-06	9.7e-07	9.7e-07									
Arsenic compounds	8.34e-06	2.09e-06	2.09e-06									
Benzene	0.00195	0.000486	0.000486									
Benzo(a)anthracene	3.5e-06	8.76e-07	8.76e-07									
Benzo(b)fluoranthene	2.07e-07	5.2e-08	5.2e-08									
Benzo(ghi)perylene	1.02e-06	2.55e-07	2.55e-07									
Benzo(k)fluoranthene	3.23e-07	8.08e-08	8.08e-08									
Benzo(a)pyrene	3.92e-07	9.8e-08	9.8e-08									
Beryllium Compounds	6.26e-06	1.56e-06	1.56e-06									
Cadmium compounds	1e-05	2.5e-06	2.5e-06									
Carbon Dioxide	341.9	1,497.7	1,497.7									
Carbon Dioxide Equivalent	343.1	1,502.8	1,502.8									
Carbon Monoxide	0.113	0.495	0.495									
Chrysene	7.36e-07	1.84e-07	1.84e-07									
Copper	1.25e-05	3.13e-06	3.13e-06									
Dibenz[a,h]anthracene	1.22e-06	3.04e-07	3.04e-07									
Fluoranthene	1.59e-05	3.97e-06	3.97e-06									
Fluorene	6.09e-05	1.52e-05	1.52e-05									
Formaldehyde	0.00246	0.000615	0.000615									

PTE by SI

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Pollutant	Potential (lbs/hr)	Unrestricted Potential (tons/yr)	Potential Limited (tons/yr)	Actual Emissions (tons/yr)
Equipment	Reciprocating IC Engine	EQUI 376	Null	South Fire Pump	Indeno(1,2,3-cd)pyrene	7.82e-07	1.95e-07	1.95e-07	
					Manganese compounds	0.00165	0.000412	0.000412	
					Mercury Compounds	2.5e-06	6.26e-07	6.26e-07	
					Methane	0.01379	0.06038	0.06038	
					Naphthalene	0.000177	4.42e-05	4.42e-05	
					Nickel compounds	6.26e-06	1.56e-06	1.56e-06	
					Nitrogen Oxides	0.525	2.299	2.299	
					Nitrous Oxide	0.00276	0.01208	0.01208	
					Particulate Matter	0.0369	0.1616	0.1616	
					Phenanthrene	6.13e-05	1.53e-05	1.53e-05	
					PM < 2.5 micron	0.0369	0.1616	0.1616	
					PM < 10 micron	0.0369	0.1616	0.1616	
					Propylene oxide	0.00538	0.00134	0.00134	
					Pyrene	1e-05	2.49e-06	2.49e-06	
					Selenium compounds	3.13e-05	7.82e-06	7.82e-06	
					Sulfur Dioxide	0.000179	0.000782	0.000782	
					Toluene	0.000853	0.000213	0.000213	
					Volatile Organic Compounds	0.0438	0.1918	0.1918	
					Xylenes, Total	0.000594	0.000149	0.000149	
					Zinc	8.34e-06	2.09e-06	2.09e-06	
	Separation Equipment	EQUI 20	EU121	Static Sifter #1	Particulate Matter	0.319	139.613	1.396	
					PM < 2.5 micron	2.231	139.613	9.773	
					PM < 10 micron	2.231	139.613	9.773	
		EQUI 21	EU122	Static Sifter #2	Particulate Matter	0.319	139.613	1.396	
					PM < 2.5 micron	2.231	139.613	9.773	
					PM < 10 micron	2.231	139.613	9.773	
	Silo/Bin	EQUI 50	EU158	Seed Day Bin	Particulate Matter	0.7625	16.699	0	
					PM < 2.5 micron	0.0725	1.588	0	
					PM < 10 micron	0.425	9.308	0	
EQUI 71		EU038	Drag Conveyor to Outside Meal Bins/Harvestore	Particulate Matter	0.0229	10.019	0.1002		
				PM < 2.5 micron	0.0152	0.9527	0.0667		
				PM < 10 micron	0.0892	5.585	0.3909		
EQUI 252		Null	River Bin 17	Particulate Matter	0.0229	10.0193	0.1002		
				PM < 2.5 micron	0.0152	0.9527	0.0667		
				PM < 10 micron	0.0892	5.5845	0.3909		
EQUI 253		Null	River Bin 18	Particulate Matter	0.0229	10.0193	0.1002		
				PM < 2.5 micron	0.0152	0.9527	0.0667		
				PM < 10 micron	0.0892	5.5845	0.3909		

Relationships

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
Equipment	Aboveground Storage Tank	EQUI 124	TK001	Hexane Tank 1100	is controlled by	TREA 26	100	099-Other	CE028	1/1/1985	Null	
					sends to	STRU 11	100	Stack/Vent	SV011	1/1/1985	Null	
		EQUI 125	TK002	Hexane Tank 4a	is controlled by	TREA 26	100	099-Other	CE028	1/1/1985	Null	
					sends to	STRU 11	100	Stack/Vent	SV011	1/1/1985	Null	
	Boiler	EQUI 76	EU059	Boiler #1	sends to	STRU 23	100	Stack/Vent	SV023	1/1/1972	Null	
		EQUI 78	EU066	Boiler #2	sends to	STRU 22	100	Stack/Vent	SV022	3/6/2001	Null	
	Cleaning Equipment	EQUI 87	EU076	Seed Cleaner	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1979	Null	
					sends to	STRU 4	100	Stack/Vent	SV004	1/1/1979	Null	
		EQUI 97	EU086	Conditioner Seed Cleaner	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1975	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1975	Null	
	Conveyor	EQUI 9	EU001	Truck Dump Drag Conveyor 1	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	5/4/2009	Null	
					sends to	STRU 4	100	Stack/Vent	SV004	5/4/2009	Null	
		EQUI 13	EU114	Flake Bulk-Flow Feed Screw Conveyor	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1991	Null	
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1991	Null	
		EQUI 15	EU116	Flake Cross Screw Conveyor	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1991	Null	
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1991	Null	
		EQUI 17	EU118	Basement Cake Screw Conveyor	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1999	Null	
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1999	Null	
		EQUI 18	EU119	Horizontal Meal Drag Conveyor	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1998	Null	
					sends to	STRU 13	100	Stack/Vent	SV013	1/1/1998	Null	
		EQUI 19	EU120	Sifter Feed Screw Conveyor	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1991	Null	
					sends to	STRU 13	100	Stack/Vent	SV013	1/1/1991	Null	
		EQUI 24	EU125	Harvestore Feed Conveyor	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	2/28/2006	Null	
					sends to	STRU 4	100	Stack/Vent	SV004	2/28/2006	Null	
EQUI 30		EU131	S-N 24" Screw Conveyor to River	is controlled by	TREA 25	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	1/1/1995	Null		
				sends to	STRU 17	100	Stack/Vent	SV017	1/1/1995	Null		
EQUI 34	EU135	Incline Screw to Tanks 151and 152	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	10/1/2016	Null			
				TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null			
			sends to	STRU 5	100	Stack/Vent	SV005	1/1/1999	Null			
				STRU 65	0	Stack/Vent	Null	3/1/2024	Null			
EQUI 37	EU138	Rail Cross Conveyor	is controlled by	TREA 25	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	1/1/1999	Null			
			sends to	STRU 17	100	Stack/Vent	SV017	1/1/1999	Null			
EQUI 38	EU139	Rail Pit Discharge Conveyor	is controlled by	TREA 25	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	1/1/1999	Null			
			sends to	STRU 17	100	Stack/Vent	SV017	1/1/1999	Null			
EQUI 39	EU140	Under Bins Conveyor to Loadout	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1976	Null			
			sends to	STRU 13	100	Stack/Vent	SV013	1/1/1976	Null			
EQUI 42	EU143	Harvestore Discharge Conveyor	is controlled by	TREA 33	100	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	11/1/2021	Null			
			sends to	STRU 18	100	Stack/Vent	SV018	1/1/1976	Null			
EQUI 43	EU144	Harvestore Discharge Inclined Conveyor	is controlled by	TREA 33	100	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	11/1/2021	Null			

Relationships

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date
Equipment	Conveyor	EQUI 43	EU144	Harvestore Discharge Inclined Conveyor	sends to	STRU 18	100	Stack/Vent	SV018	1/1/1976	Null
		EQUI 47	EU152	N-S Rail Belt Conveyor	is controlled by	TREA 11	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE003	1/1/1997	Null
					sends to	STRU 3	100	Stack/Vent	SV003	1/1/1997	Null
		EQUI 48	EU151	Screw Conveyor to Bins 1-6	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1982	Null
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1982	Null
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null
		EQUI 49	EU155	Dryer Feed Screw Conveyor	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1979	Null
					sends to	STRU 4	100	Stack/Vent	SV004	1/1/1979	Null
		EQUI 53	EU159	Flaker Feed Conveyor	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1991	Null
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1991	Null
		EQUI 54	EU160	Flaker Collect Conveyor	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1992	Null
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1992	Null
		EQUI 59	EU165	Drag Conveyor to Inside Bins	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1994	Null
					sends to	STRU 13	100	Stack/Vent	SV013	1/1/1994	Null
		EQUI 60	EU166	L-Path Conveyor Under Bins	is controlled by	TREA 25	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	1/1/1974	Null
					sends to	STRU 17	100	Stack/Vent	SV017	1/1/1974	Null
		EQUI 61	EU167	Drag Conveyor to Rail	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1981	Null
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1981	Null
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null
		EQUI 62	EU168	Truck Meal Loadout Drag Conveyor	is controlled by	TREA 33	100	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	11/1/2021	Null
					sends to	STRU 18	100	Stack/Vent	SV018	1/1/1986	Null
		EQUI 63	EU169	Traveling Enclosed Belt Conveyor/Rail Loadout	is controlled by	TREA 25	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	1/1/1999	Null
					sends to	STRU 17	100	Stack/Vent	SV017	1/1/1999	Null
		EQUI 70	EU034	Meal Incline Drag Conveyor from Ext.	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1998	Null
					sends to	STRU 13	100	Stack/Vent	SV013	1/1/1998	Null
		EQUI 75	EU044	River Bin Feed Drag Conveyor(Tank 17)	is controlled by	TREA 25	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	1/1/1997	Null
					sends to	STRU 17	100	Stack/Vent	SV017	1/1/1997	Null
		EQUI 81	EU070	Rail Pit Conveyor #2	is controlled by	TREA 11	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE003	1/1/1997	Null
					sends to	STRU 3	100	Stack/Vent	SV003	1/1/1997	Null
		EQUI 85	EU074	Tank 1000 Discharge Drag Conveyor	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/2007	Null
sends to	STRU 4				100	Stack/Vent	SV004	1/1/2007	Null		
EQUI 86	EU075	Drag Conveyor to Meal Bins	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1985	Null		
			sends to	STRU 4	100	Stack/Vent	SV004	1/1/1985	Null		
EQUI 90	EU079	Drag Conveyor to Seed Bins	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1981	Null		
				TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null		
			sends to	STRU 5	100	Stack/Vent	SV005	1/1/1981	Null		
				STRU 65	0	Stack/Vent	Null	3/1/2024	Null		

Relationships

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category Equipment	SI Type Conveyor	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
		EQUI 91	EU080	Drag Conveyor from Bins	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1981	Null	
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null	
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1981	Null	
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null	
		EQUI 98	EU087	Drag Conveyor to Conditioners	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1988	Null	
						sends to	STRU 8	100	Stack/Vent	SV008	1/1/1988	Null
		EQUI 99	EU088	Cross Conveyor to Conditioner #1	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1978	Null	
						sends to	STRU 8	100	Stack/Vent	SV008	1/1/1978	Null
		EQUI 108	EU101	Rerun Screw Conveyor to Day Bin	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1978	Null	
						sends to	STRU 8	100	Stack/Vent	SV008	1/1/1978	Null
		EQUI 109	EU102	Cake Drag Conveyor 1-8 (1-5 Anderson/K3 Cake Drag #1 N-S)	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/2000	Null	
						sends to	STRU 8	100	Stack/Vent	SV008	1/1/2000	Null
		EQUI 110	EU103	Cake Drag Cross Conveyor (1-5 Anderson/K3 Cake Drag #1 E-W)	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/2002	Null	
						sends to	STRU 8	100	Stack/Vent	SV008	1/1/2002	Null
		EQUI 120	EU002	Truck Dump Drag Conveyor 2	is controlled by	TREA 36	100	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	2/1/2023	Null	
						sends to	STRU 66	100	Stack/Vent	Null	2/1/2023	Null
		EQUI 121	EU003	Rail Pit Belt Conveyor 1	is controlled by	TREA 11	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE003	1/1/1997	Null	
						sends to	STRU 3	100	Stack/Vent	SV003	1/1/1997	Null
		EQUI 246	EU147	Enclosed Drag Conveyor	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1999	Null	
						sends to	STRU 4	100	Stack/Vent	SV004	1/1/1999	Null
		EQUI 247	EU179	Belt Conveyor to Process Silo	is controlled by	TREA 11	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE003	10/1/2016	Null	
						sends to	STRU 3	100	Stack/Vent	SV003	10/1/2016	Null
		EQUI 249	EU181	TK1000 Belt Conveyor #1	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	10/1/2016	Null	
						sends to	STRU 4	100	Stack/Vent	SV004	10/1/2016	Null
		EQUI 250	EU182	TK1000 Belt Conveyor #2	is controlled by	STRU 4	100	Stack/Vent	SV004	10/1/2016	Null	
						TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	10/1/2016	Null	
		EQUI 329	Null	Bridge Drag Conveyor	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	8/18/2015	Null	
						sends to	STRU 4	100	Stack/Vent	SV004	8/18/2015	Null
		EQUI 331	EU090	Runaround Bulk-Flow to Expellers	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	2/28/2006	Null	
						sends to	STRU 8	100	Stack/Vent	SV008	2/28/2006	Null
		EQUI 332	EU113	Flake Overflow Bulk-Flow	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1978	Null	
						sends to	STRU 8	100	Stack/Vent	SV008	1/1/1978	Null
		EQUI 333	EU115	Flake Bulk-Flow	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1991	Null	
						sends to	STRU 9	100	Stack/Vent	SV009	1/1/1991	Null
		EQUI 336	EU126	Pellet Conveyor Top of Bins 3-6	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1975	Null	
						sends to	STRU 13	100	Stack/Vent	SV013	1/1/1975	Null
		EQUI 337	EU127	Meal Screw from 24" Rev. Screw to East	is controlled by	TREA 11	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE003	1/1/1975	Null	
						sends to	STRU 3	100	Stack/Vent	SV003	1/1/1975	Null
		EQUI 338	EU129	Meal Hi-Roller East-West	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1994	Null	

Relationships

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
Equipment	Conveyor	EQUI 338	EU129	Meal Hi-Roller East-West	sends to	STRU 13	100	Stack/Vent	SV013	1/1/1994	Null	
		EQUI 339	EU130	24" Reversing Screw E-W or W-E	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	10/1/2016	Null	
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null	
					sends to	STRU 5	100	Stack/Vent	SV005	10/1/2016	Null	
							STRU 65	0	Stack/Vent	Null	3/1/2024	Null
		EQUI 343	EU136	Cross Screw to Pellet Leg 1st Floor	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	2/28/2006	Null	
					sends to	STRU 13	100	Stack/Vent	SV013	2/28/2006	Null	
		EQUI 344	EU141	Tramco Drag Under Inside Meal Bins	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1980	Null	
					sends to	STRU 13	100	Stack/Vent	SV013	1/1/1980	Null	
		EQUI 345	EU142	Goliath Underloader	is controlled by	TREA 33	100	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	11/1/2021	Null	
					sends to	STRU 18	100	Stack/Vent	SV018	1/1/1976	Null	
		EQUI 351	EU043	S-N Tramco Drag to Barge Loading	is controlled by	TREA 25	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	1/1/1978	Null	
					sends to	STRU 17	100	Stack/Vent	SV017	1/1/1978	Null	
		EQUI 353	EU081	Screw N-S to Tanks 151 and 152	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1978	Null	
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null	
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1978	Null	
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null	
		EQUI 354	EU082	Screw From Tank 151 to 152	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1978	Null	
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null	
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1978	Null	
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null	
		EQUI 355	EU083	151 and 152 Discharge Screw W-E	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1978	Null	
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null	
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1978	Null	
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null	
		EQUI 356	EU084	Screw from Tank 151 to Truck Dump Leg	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1985	Null	
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null	
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1985	Null	
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null	
		EQUI 365	EU104	Cake Bulk-Flow	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1999	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1999	Null	
		EQUI 368	EU005	Park Track Bulk Flow	is controlled by	TREA 25	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	1/1/1977	Null	
					sends to	STRU 17	100	Stack/Vent	SV017	1/1/1977	Null	
EQUI 378	Null	Canola Overflow Discharge Conveyor	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/2003	Null			
			sends to	STRU 9	100	Stack/Vent	SV009	1/1/2003	Null			
EQUI 379	Null	Spent Flake Bulk Flow	is controlled by	TREA 19	100	008-Centrifugal Collector - Medium Efficiency	CE013	1/1/1985	Null			
			sends to	STRU 12	100	Stack/Vent	SV012	1/1/1985	Null			
EQUI 380	Null	DTDC Discharge Conveyor	is controlled by	TREA 19	100	008-Centrifugal Collector - Medium Efficiency	CE013	1/1/1985	Null			
			sends to	STRU 12	100	Stack/Vent	SV012	1/1/1985	Null			

Relationships

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date
Equipment	Conveyor	EQUI 381	Null	Incline Conveyor to Final Meal Leg	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1994	Null
					sends to	STRU 13	100	Stack/Vent	SV013	1/1/1994	Null
		EQUI 382	Null	#1 Conditioner Feed Screw	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1973	Null
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1973	Null
		EQUI 383	Null	#2 Conditioner Feed Screw	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1978	Null
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1978	Null
		EQUI 384	Null	Conditioner Rotex Feed Screw Conveyor	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1978	Null
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1978	Null
		EQUI 385	Null	Flake Bulk Flow Discharge Conveyor #2	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1991	Null
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1991	Null
		EQUI 387	Null	Bin 22 Discharge Conveyor	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1981	Null
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1981	Null
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null
		EQUI 388	Null	DTDC Feed Conveyor	is controlled by	TREA 19	100	008-Centrifugal Collector - Medium Efficiency	CE013	1/1/1985	Null
					sends to	STRU 12	100	Stack/Vent	SV012	1/1/1984	Null
		EQUI 389	Null	Extraction Plug Screw	is controlled by	TREA 19	100	008-Centrifugal Collector - Medium Efficiency	CE013	1/1/1996	Null
					sends to	STRU 12	100	Stack/Vent	SV012	1/1/1996	Null
		EQUI 390	Null	Feed Screw to 600HP Pellet Mill	is controlled by	TREA 21	100	008-Centrifugal Collector - Medium Efficiency	CE015	1/1/1980	Null
					sends to	STRU 14	100	Stack/Vent	SV014	1/1/1980	Null
		EQUI 391	Null	Flake Bulkflow Discharge #1	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1991	Null
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1991	Null
		EQUI 392	Null	Flake Discharge Overflow Bulkflow	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1992	Null
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1992	Null
		EQUI 393	Null	Grain Dryer Discharge Screw E & W	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1980	Null
					sends to	STRU 4	100	Stack/Vent	SV004	1/1/1980	Null
		EQUI 396	Null	Pellet Cooler Feed Screw	is controlled by	TREA 21	100	008-Centrifugal Collector - Medium Efficiency	CE015	1/1/1999	Null
					sends to	STRU 14	100	Stack/Vent	SV014	1/1/1999	Null
		EQUI 397	Null	Pellet Mill 250HP West Feed Screw	is controlled by	TREA 21	100	008-Centrifugal Collector - Medium Efficiency	CE015	1/1/1995	Null
					sends to	STRU 14	100	Stack/Vent	SV014	1/1/1995	Null
		EQUI 398	Null	Rail Leg Discharge Screw Conveyor	is controlled by	TREA 11	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE003	1/1/1994	Null
					sends to	STRU 3	100	Stack/Vent	SV003	1/1/1994	Null
EQUI 399	Null	Pellet Mill 250HP East Feed Screw	is controlled by	TREA 21	100	008-Centrifugal Collector - Medium Efficiency	CE015	1/1/1995	Null		
			sends to	STRU 14	100	Stack/Vent	SV014	1/1/1995	Null		
EQUI 400	Null	Process Silo Belt Conveyor	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	6/1/2018	Null		
			sends to	STRU 4	100	Stack/Vent	SV004	6/1/2018	Null		
EQUI 401	Null	Process Silo Rotex Feed Screw Conveyor	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1979	Null		
			sends to	STRU 4	100	Stack/Vent	SV004	1/1/1979	Null		
EQUI 402	Null	Feed Screw, Anderson #1	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null		

Relationships

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
Equipment	Conveyor	EQUI 402	Null	Feed Screw, Anderson #1	sends to	STRU 8	100	Stack/Vent	SV008	1/1/1980	Null	
		EQUI 403	Null	Feed Screw, Anderson #2	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1980	Null	
		EQUI 404	Null	Feed Screw, Anderson #3	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1980	Null	
		EQUI 405	Null	Feed Screw, Anderson #4	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1980	Null	
		EQUI 406	Null	Feed Screw, Anderson #5	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1980	Null	
		EQUI 407	Null	Feed Screw, Krupp #2	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1998	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1998	Null	
		EQUI 408	Null	Feed Screw, Krupp #3	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	12/7/2012	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	12/7/2012	Null	
		EQUI 409	Null	Pellet Cooler Discharge Conveyor	is controlled by	TREA 21	100	008-Centrifugal Collector - Medium Efficiency	CE015	1/1/1999	Null	
					sends to	STRU 14	100	Stack/Vent	SV014	1/1/1999	Null	
		EQUI 419	Null	Feed Screw, Krupp #1	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	6/21/2021	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	6/21/2021	Null	
		EQUI 420	Null	Canola OverFlow Bulk Flow	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	6/21/2021	Null	
					sends to	STRU 9	100	Stack/Vent	SV009	6/21/2021	Null	
		EQUI 421	Null	Process Silo Rotex Discharge Drag	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1988	Null	
sends to	STRU 4				100	Stack/Vent	SV004	1/1/1988	Null			
Cooler	EQUI 72	EU041	Pellet Cooler	is controlled by	TREA 21	100	008-Centrifugal Collector - Medium Efficiency	CE015	1/1/1999	Null		
				sends to	STRU 14	100	Stack/Vent	SV014	1/1/1999	Null		
	EQUI 418	Null	DC Cooler	is controlled by	TREA 32	100	008-Centrifugal Collector - Medium Efficiency	Null	2/24/1985	Null		
				sends to	STRU 12	100	Stack/Vent	SV012	2/24/1985	Null		
Dryer/Oven, indirect fired	EQUI 416	Null	DC Dryer #1	is controlled by	TREA 19	100	008-Centrifugal Collector - Medium Efficiency	CE013	2/24/1985	Null		
				sends to	STRU 12	100	Stack/Vent	SV012	2/24/1985	Null		
	EQUI 417	Null	DC Dryer #2	is controlled by	TREA 31	100	008-Centrifugal Collector - Medium Efficiency	Null	2/24/1985	Null		
				sends to	STRU 12	100	Stack/Vent	SV012	2/24/1985	Null		
Elevator	EQUI 44	EU145	Harvestore Discharge Elevator Leg	is controlled by	TREA 33	100	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	11/1/2021	Null		
				sends to	STRU 18	100	Stack/Vent	SV018	1/1/1976	Null		
	EQUI 46	EU150	Inside Silo Elevator Leg	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1978	Null		
				sends to	STRU 4	100	Stack/Vent	SV004	1/1/1978	Null		
	EQUI 55	EU161	Final Meal Elevator Leg	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1994	Null		
				sends to	STRU 13	100	Stack/Vent	SV013	1/1/1994	Null		
	EQUI 57	EU163	Pellet Elevator Leg	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1980	Null		
				sends to	STRU 13	100	Stack/Vent	SV013	1/1/1980	Null		
	EQUI 58	EU164	Elevator Leg to Harvestore	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1977	Null		
				sends to	STRU 4	100	Stack/Vent	SV004	1/1/1977	Null		

Relationships

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date		
Equipment	Elevator	EQUI 65	EU011	Elevator Leg	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1978	Null		
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null		
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1978	Null		
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null		
		EQUI 73	EU042	River Bin Elevator Leg	is controlled by	TREA 25	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	1/1/1981	Null		
						STRU 17	100	Stack/Vent	SV017	1/1/1981	Null		
		EQUI 80	EU069	Truck Dump Elevator Leg #2	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1979	Null		
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null		
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1979	Null		
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null		
		EQUI 82	EU071	Rail Seed Elevator Leg	is controlled by	TREA 11	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE003	1/1/1997	Null		
						STRU 3	100	Stack/Vent	SV003	1/1/1997	Null		
		EQUI 89	EU078	160' Leg at Flour Mill Elevator	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1981	Null		
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null		
					sends to	STRU 5	100	Stack/Vent	SV005	1/1/1981	Null		
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null		
		EQUI 107	EU100	Rerun Seed Elevator Leg	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1978	Null		
						STRU 8	100	Stack/Vent	SV008	1/1/1978	Null		
		EQUI 248	EU180	Rail Elevator Leg	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	10/1/2016	Null		
						STRU 4	100	Stack/Vent	SV004	10/1/2016	Null		
		EQUI 370	EU156	Dryer Discharge Elevator Leg	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1980	Null		
						STRU 4	100	Stack/Vent	SV004	1/1/1980	Null		
		Extractor	Extractor	EQUI 67	EU023	K1 Expeller	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	11/15/2000	Null
								STRU 8	100	Stack/Vent	SV008	1/1/1998	Null
EQUI 77	EU065			Extractor	is controlled by	TREA 26	100	099-Other	CE028	1/1/1996	Null		
						STRU 11	100	Stack/Vent	SV011	1/1/1996	Null		
EQUI 101	EU091			K2 Expeller	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1998	Null		
						STRU 8	100	Stack/Vent	SV008	1/1/1998	Null		
EQUI 102	EU092			#1 Expeller	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null		
						STRU 8	100	Stack/Vent	SV008	1/1/1980	Null		
EQUI 103	EU093			#2 Expeller	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null		
						STRU 8	100	Stack/Vent	SV008	1/1/1980	Null		
EQUI 104	EU094			#3 Expeller	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null		
						STRU 8	100	Stack/Vent	SV008	1/1/1980	Null		
EQUI 105	EU095			#4 Expeller	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null		
						STRU 8	100	Stack/Vent	SV008	1/1/1980	Null		
EQUI 106	EU096			#5 Expeller	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null		
						STRU 8	100	Stack/Vent	SV008	1/1/1980	Null		
Flaker Equipment		EQUI 11	EU112	#6 Flaker	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1976	Null		

Relationships

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)
 Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
Equipment	Flaker Equipment	EQUI 11	EU112	#6 Flaker	sends to	STRU 9	100	Stack/Vent	SV009	1/1/1976	Null	
		EQUI 14	EU115	Flake Bulk-Flow	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	2/28/2006	Null	
					sends to	STRU 9	100	Stack/Vent	SV009	2/28/2006	Null	
		EQUI 68	EU025	#1 Flaker	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1974	Null	
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1974	Null	
		EQUI 115	EU108	#2 Flaker	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1974	Null	
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1974	Null	
		EQUI 116	EU109	#3 Flaker	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1975	Null	
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1975	Null	
		EQUI 117	EU110	#4 Flaker	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1975	Null	
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1975	Null	
		EQUI 118	EU111	#5 Flaker	is controlled by	TREA 13	100	008-Centrifugal Collector - Medium Efficiency	CE005	1/1/1976	Null	
					sends to	STRU 9	100	Stack/Vent	SV009	1/1/1976	Null	
		Material Handling Equipment	EQUI 410	Null	Top Vents - Flour Mill Elevator Silos	is controlled by	TREA 29	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE009	1/1/1962	Null
						TREA 35	0	018-Fabric Filter - Low Temp, T<180 Degrees F	Null	3/1/2024	Null	
	sends to					STRU 5	100	Stack/Vent	SV005	1/1/1962	Null	
						STRU 65	0	Stack/Vent	Null	3/1/2024	Null	
	EQUI 411		Null	Top Vents - Inside/Outside Meal Bins/Harvestore	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1971	Null	
					sends to	STRU 4	100	Stack/Vent	SV004	1/1/1971	Null	
	EQUI 412	Null	Top Vents - Process Elevator Silos	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1976	Null		
				sends to	STRU 4	100	Stack/Vent	SV004	1/1/1976	Null		
	Mechanical Processing	EQUI 334	EU123	Meal Grinder #1	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1978	Null	
					sends to	STRU 13	100	Stack/Vent	SV013	1/1/1978	Null	
		EQUI 335	EU124	Meal Grinder #2	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1978	Null	
					sends to	STRU 13	100	Stack/Vent	SV013	1/1/1978	Null	
	Milling Equipment	EQUI 31	EU132	Pellet Mill 600 HP	is controlled by	TREA 21	100	008-Centrifugal Collector - Medium Efficiency	CE015	1/1/1980	Null	
					sends to	STRU 14	100	Stack/Vent	SV014	1/1/1980	Null	
		EQUI 32	EU133	Pellet Mill E 250 HP	is controlled by	TREA 21	100	008-Centrifugal Collector - Medium Efficiency	CE015	1/1/1995	Null	
sends to					STRU 14	100	Stack/Vent	SV014	1/1/1995	Null		
EQUI 33		EU134	Pellet Mill W 250 HP	is controlled by	TREA 21	100	008-Centrifugal Collector - Medium Efficiency	CE015	1/1/1995	Null		
				sends to	STRU 14	100	Stack/Vent	SV014	1/1/1995	Null		
EQUI 112		EU105	Cake Hammermill	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1979	Null		
				sends to	STRU 8	100	Stack/Vent	SV008	1/1/1979	Null		
Mixing Equipment	EQUI 386	Null	1st Mixer Screw to 600HP Pellet Mill	is controlled by	TREA 21	100	008-Centrifugal Collector - Medium Efficiency	CE015	1/1/1980	Null		
				sends to	STRU 14	100	Stack/Vent	SV014	1/1/1980	Null		
Other Emission Unit	EQUI 64	EU176	Conditioner #1	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1973	Null		
				sends to	STRU 8	100	Stack/Vent	SV008	1/1/1973	Null		
	EQUI 69	EU033	Desolventizer-Toaster	is controlled by	TREA 26	100	099-Other	CE028	1/1/1985	Null		
				sends to	STRU 11	100	Stack/Vent	SV011	1/1/1985	Null		

Relationships

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

SI Category	SI Type	Subject Item ID	Delta Designation	Description	Relationship	Related SI ID	% Flow	Related SI Type	Related Delta Designation	Relationship Start Date	Relationship End Date	
Equipment	Other Emission Unit	EQUI 100	EU089	Conditioner #2	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1978	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1978	Null	
		EQUI 369	EU019	Column Dryer with Screen Airs	is controlled by	TREA 30	100	008-Centrifugal Collector - Medium Efficiency	Null	1/1/1980	Null	
					sends to	STRU 7	100	Stack/Vent	SV007	1/1/1980	Null	
	Pressing Equipment	EQUI 330	EU178	K3 Expeller	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	12/7/2012	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	12/7/2012	Null	
	Reciprocating IC Engine	EQUI 372	Null	Emergency Generator	sends to	STRU 24	100	Stack/Vent	SV024	1/1/2000	Null	
					sends to	STRU 63	100	Stack/Vent	Null	1/1/1980	Null	
					sends to	STRU 64	100	Stack/Vent	Null	1/1/1980	Null	
	Separation Equipment	EQUI 20	EU121	Static Sifter #1	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1988	Null	
					sends to	STRU 13	100	Stack/Vent	SV013	1/1/1988	Null	
		EQUI 21	EU122	Static Sifter #2	is controlled by	TREA 20	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE014	1/1/1988	Null	
					sends to	STRU 13	100	Stack/Vent	SV013	1/1/1988	Null	
	Silo/Bin	EQUI 50	EU158	Seed Day Bin	is controlled by	TREA 18	100	008-Centrifugal Collector - Medium Efficiency	CE010	1/1/1980	Null	
					sends to	STRU 8	100	Stack/Vent	SV008	1/1/1980	Null	
		EQUI 71	EU038	Drag Conveyor to Outside Meal Bins/Harvestore	is controlled by	TREA 14	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE006	1/1/1995	Null	
					sends to	STRU 4	100	Stack/Vent	SV004	1/1/1995	Null	
		EQUI 252	Null	River Bin 17	is controlled by	TREA 15	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE007	1/1/2000	Null	
						TREA 25	0	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	9/26/2023	Null	
					sends to	STRU 15	100	Stack/Vent	SV015	1/1/2000	Null	
					STRU 17	0	Stack/Vent	SV017	9/26/2023	Null		
EQUI 253		Null	River Bin 18	is controlled by	TREA 16	100	018-Fabric Filter - Low Temp, T<180 Degrees F	CE008	1/1/2000	Null		
					TREA 25	0	018-Fabric Filter - Low Temp, T<180 Degrees F	CE021	9/26/2023	Null		
	sends to			STRU 16	100	Stack/Vent	SV016	1/1/2000	Null			
				STRU 17	0	Stack/Vent	SV017	9/26/2023	Null			

Aboveground Storage Tanks

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)
 Activity: IND20230001

Subject Item ID	Delta Designation	Description	Capacity (gal)	Construction Type	Column Diameter (ft)	Number of Columns	Deck Type	Interior Diameter (ft)	Interior Height (ft)	Max True Vapor Pressure (psia)	Construction Type	Seal Type	Support Type	Construction or Installation Start Date
EQUI 124	TK001	Hexane Tank 1100	17000	Fixed Roof	Null	Null	Null	9	36	1.91	Fixed Roof	Null	Null	1/1/1990
EQUI 125	TK002	Hexane Tank 4a	33000	Fixed Roof	Null	Null	Null	18	25	1.91	Fixed Roof	Null	Null	1/1/2009

Building

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)
 Activity: IND20230001

Subject Item ID	Delta Designation	Description	Height	Units (height)	Length	Units (length)	Width	Units (width)	
STRU 29	Null	Truckers Lounge	10	feet	20	feet	12	feet	
STRU 30	Null	Refinery	73	feet	76	feet	60	feet	
STRU 31	Null	Boiler Room	26	feet	42	feet	35	feet	
STRU 32	Null	Clay Tank Room	16	feet	17	feet	17	feet	
STRU 33	Null	Maintenance and Storage	42	feet	86	feet	33	feet	
STRU 34	Null	Expeller Plant	38	feet	96	feet	59	feet	
STRU 35	Null	Flour Mill Penthouse	180	feet	20	feet	18	feet	
STRU 36	Null	Office	65	feet	96	feet	52	feet	
STRU 37	Null	Diesel House/Pump House	10	feet	32	feet	30	feet	
STRU 38	Null	Process Silos Head House	150	feet	52	feet	12	feet	
STRU 39	Null	Solvent Plant	61	feet	113	feet	102	feet	
STRU 40	Null	Extraction (MCC Room)	18	feet	30	feet	17	feet	
STRU 41	Null	Meal House	102	feet	80	feet	24	feet	
STRU 42	Null	Process Silo Truck Dump	19	feet	36	feet	10	feet	
STRU 43	Null	Foam House	26	feet	49	feet	15	feet	
STRU 44	Null	Flour Mill Head House	170	feet	50	feet	18	feet	
STRU 45	Null	Flour Mill Truck Dump	13	feet	14	feet	14	feet	
STRU 46	Null	Rail Car Seed Receiving Control Room	9	feet	30	feet	10	feet	
STRU 47	Null	Barge Loading Dock	22	feet	33	feet	18	feet	
STRU 48	Null	Well House	8	feet	19	feet	8	feet	
STRU 49	Null	Flour Mill Silos MCC (MCC)	9	feet	13	feet	12	feet	
STRU 50	Null	Rail Oil Loadout	27	feet	75	feet	10	feet	
STRU 51	Null	River Shed	14	feet	60	feet	20	feet	
STRU 52	Null	Electrician Tool Room	15	feet	22	feet	12	feet	
STRU 53	Null	Shop Addition	30	feet	23	feet	11	feet	
STRU 54	Null	Process Silo Penthouse	160	feet	26	feet	23	feet	
STRU 55	Null	Loading Dock	12	feet	33	feet	14	feet	
STRU 56	Null	Penthouse	91	feet	18	feet	18	feet	
STRU 57	Null	Bleach Penthouse	56	feet	33	feet	33	feet	

Building

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

Subject Item ID	Delta Designation	Description	Height	Units (height)	Length	Units (length)	Width	Units (width)	
STRU 58	Null	Tracks 1-3 Rail Building (roof)	42	feet	181	feet	47	feet	
STRU 59	Null	Shop	43	feet	65	feet	22	feet	
STRU 60	Null	Scale Office	10	feet	33	feet	9	feet	
STRU 61	Null	Meal Railcar Load Area	45	feet	100	feet	25	feet	
STRU 62	Null	Bulk Storage	65	feet	63	feet	27	feet	

Stack/Vents

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

Subject Item ID	Delta Designation	Description	Stack Height (feet)	Stack Diameter (feet)	Stack Length (feet)	Stack Width (feet)	Stack Flow Rate (cubic ft/min)	Discharge Temperature (°F)	Flow Rate/Temp Information Source	Discharge Direction
STRU 3	SV003	Railcar Receiving	15	2	Null	Null	13,500	68	Estimate	Upwards with no cap on stack/vent
STRU 4	SV004	Process Elevator 1a & 1b	65	Null	4	3	18,000	68	Estimate	Upwards with no cap on stack/vent
STRU 5	SV005	Old Flour Mill	6	Null	2	2.5	20,000	68	Estimate	Horizontally
STRU 6	SV006	Grain/Seed Storage	106.5	1.33	Null	Null	0.1	68	Estimate	Upwards with no cap on stack/vent
STRU 7	SV007	Grain/Seed Dryer	60	16	Null	Null	179,000	90	Estimate	Upwards with no cap on stack/vent
STRU 8	SV008	Expeller/Conditioner	60	3.25	Null	Null	15,000	150	Test data	Upwards with no cap on stack/vent
STRU 9	SV009	Flaking Rolls	40	2.17	Null	Null	13,000	128	Test data	Upwards with no cap on stack/vent
STRU 10	SV010	Conveyor to Extractor	70	0.67	Null	Null	2,000	100	Estimate	Upwards with no cap on stack/vent
STRU 11	SV011	Extractor/DTDC (Desolventizer Toaster) He..	64	0.5	Null	Null	500	90	Estimate	Upwards with no cap on stack/vent
STRU 12	SV012	DTDC (Dryers/Coolers)	64	4	Null	Null	20,000	140	Estimate	Upwards with no cap on stack/vent
STRU 13	SV013	Meal Grinding	15	2.1	Null	Null	11,000	97	Test data	Upwards with no cap on stack/vent
STRU 14	SV014	Pellet Cooler	24	2.83	Null	Null	16,000	175	Test data	Upwards with no cap on stack/vent
STRU 15	SV015	River Bin Tank 17	70	Null	2.25	0.5	1,250	68	Estimate	Upwards with no cap on stack/vent
STRU 16	SV016	River Bin Tank 18	70	Null	2.25	0.5	1,250	68	Estimate	Upwards with no cap on stack/vent
STRU 17	SV017	Rail/Barge Loadout/Barge Receiving	25	3	Null	Null	16,300	68	Test data	Upwards with no cap on stack/vent
STRU 18	SV018	Truck Loadout	50	Null	2	1.5	18,000	68	Estimate	Upwards with no cap on stack/vent
STRU 22	SV022	Boiler 2	60	4	Null	Null	30,000	400	Estimate	Upwards with no cap on stack/vent
STRU 23	SV023	Boiler 1	115	6	Null	Null	24,500	205	Test data	Upwards with no cap on stack/vent
STRU 24	SV024	Emergency Generator	16	Null	37	32	1,800	400	Estimate	Upwards with no cap on stack/vent
STRU 63	Null	North Fire Pump	7.5	0.67	Null	Null	2,000	300	Estimate	Horizontally
STRU 64	Null	South Fire Pump	7.5	0.67	Null	Null	2,000	300	Estimate	Horizontally
STRU 65	Null	Flour Mill	6	2.13	Null	Null	20,000	68	Estimate	Upwards with no cap on stack/vent
STRU 66	Null	Truck Receiving Pit 2	20	Null	1.66	1.66	10,000	68	Estimate	Horizontally

Other Controls

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)
 Activity: IND20230001

Subject Item Type	Subject Item ID	Delta Designation	Description	Manufacturer (Model #)	Installation Start Date	Pollutants Controlled	Capture Efficiency (%)	Destruction/Collect Efficiency (%)	Subject to CAM?	Large or Other PSEU?	Efficiency Basis	Other Basis Explanation	Other operating parameters?	Other operating parameters description
099-Other	TREA 26	CE028	MO Absorber/Cold Water Condenser	ADM (NA)	3/12/2004	Hexane	100	95	No	Null	Other	Guidance from the national oilseed processors association and ADM lab data.	Yes	Minimum mineral oil temperature, minimum condenser outlet gas temperature, minimum mineral oil flow rate.
						Volatile Organic Compounds	100	95	Yes	Large	Other	Null	Yes	Minimum mineral oil temperature, minimum condenser outlet gas temperature, minimum mineral oil flow rate.

Cyclones/Collectors

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

Subject Item Type	Subject Item ID	Delta Designation	Description	Manufacturer (Model #)	Installation Start Date	Pollutants Controlled	Capture Efficiency (%)	Destruction/Collect Efficiency (%)	Subject to CAM?	Large or Other PSEU?	Efficiency Basis	Other Basis Explanation	Cyclone Min Pressure Drop (in. of w.c.)	Cyclone Max Pressure Drop (in. of w.c.)
008-Centrifugal Collector - Medium Efficiency	TREA 13	CE005	Flaking Rolls	Quality Sheet Metal Fabricators (78 inch dia.)	8/1/2009	Particulate Matter	100	80	Yes	Other	Mfr/ Vendor data	Null	0.5	10
						PM < 2.5 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10
						PM < 10 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10
	TREA 18	CE010	Expeller/Conditioner	Derson Manufacturing (Cyclofilter 96")	1/1/1996	Particulate Matter	100	80	Yes	Other	Mfr/ Vendor data	Null	0.5	10
						PM < 2.5 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10
						PM < 10 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10
	TREA 19	CE013	DC Dryer #1	Carter-Day Co (HV 56)	1/1/1985	Particulate Matter	100	80	Yes	Other	Mfr/ Vendor data	Null	0.5	10
						PM < 2.5 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10
						PM < 10 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10
TREA 21	CE015	Pellet Cooler	Tech Air Inc (120 in Diameter)	1/1/1980	Particulate Matter	100	80	Yes	Other	Mfr/ Vendor data	Null	0.5	10	
					PM < 2.5 micron	100	80	Yes	Other	Mfr/ Vendor data	Null	0.5	10	
					PM < 10 micron	100	80	Yes	Other	Mfr/ Vendor data	Null	0.5	10	
TREA 30	Null	Column Dryer Cyclone	Tech Air (C2255-72)	1/1/1980	Particulate Matter	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10	
					PM < 2.5 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10	
					PM < 10 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10	
TREA 31	Null	DC Dryer #2	Carter-Day Co (HV 56)	1/1/1998	Particulate Matter	100	80	Yes	Other	Mfr/ Vendor data	Null	0.5	10	
					PM < 2.5 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10	
					PM < 10 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10	
TREA 32	Null	DC Cooler	Carter-Day Co (HV 56)	1/1/1998	Particulate Matter	100	80	Yes	Other	Mfr/ Vendor data	Null	0.5	10	
					PM < 2.5 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10	
					PM < 10 micron	100	80	No	Null	Mfr/ Vendor data	Null	0.5	10	

Fabric Filters

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)
 Activity: IND20230001

Subject Item Type	Subject Item ID	Delta Designation	Description	Manufacturer (Model #)	Installation Start Date	Pollutants Controlled	Capture Efficiency (%)	Destruction/Collect Efficiency (%)	Subject to CAM?	Large or Other PSEU?	Efficiency Basis	Other Basis Explanation	Filter Min Pressure Drop (in. of w.c.)	Filter Max Pressure Drop (in. of w.c.)	Bag leak detector in use?
018-Fabric Filter - Low Temp, T<180 Degrees F	TREA 11	CE003	Railcar Receiving	Pneumafil (8.5-159-12)	8/13/2003	Particulate Matter	80	99	No	Null	Mfr/ Vendor data	Null	0.5	8	No
						PM < 2.5 micron	80	99	No	Null	Mfr/ Vendor data	Null	0.5	8	No
						PM < 10 micron	80	99	No	Null	Mfr/ Vendor data	Null	0.5	8	No
TREA 14	CE006	Process Elevator 1a & 1b	Pneumafil (8.5-159-12)	1/1/1999	Particulate Matter	100	99	Yes	Other	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 2.5 micron	100	93	Yes	Other	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 10 micron	100	93	Yes	Other	Mfr/ Vendor data	Null	0.5	8	No	
TREA 15	CE007	River Bin 17	DCE Unimaster (UMA150HK7 WC)	3/2/1999	Particulate Matter	100	99	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 2.5 micron	100	93	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 10 micron	100	93	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
TREA 16	CE008	River Bin 18	DCE Unimaster (UMA150HK7 WC)	3/2/1999	Particulate Matter	100	99	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 2.5 micron	100	93	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 10 micron	100	93	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
TREA 20	CE014	Meal Grinding	Pneumafil (8.5-159-12 Reverse Air)	1/1/1996	Particulate Matter	100	99	Yes	Other	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 2.5 micron	100	93	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 10 micron	100	93	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
TREA 25	CE021	Rail/Barge Loadout	Pneumafil (8.5-159-12 Reverse Air)	3/2/1999	Particulate Matter	100	99	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 2.5 micron	100	93	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 10 micron	100	93	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
TREA 29	CE009	Flour Mill	Wiedenmann and Sons Inc. (2x5 LFT 200-2000 Filtromatic)	1/1/1983	Particulate Matter	100	99	Yes	Other	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 2.5 micron	100	93	No	Null	Mfr/ Vendor data	Null	0.5	8	No	
					PM < 10 micron	100	93	Yes	Other	Mfr/ Vendor data	Null	0.5	8	No	
TREA 33	Null	Truck Meal Loadout	Donaldson (266 RFWH 12AW)	10/26/2021	Particulate Matter	80	99	No	Null	Mfr/ Vendor data	Null	0.5	8	Yes	
					PM < 2.5 micron	80	93	No	Null	Mfr/ Vendor data	Null	0.5	8	Yes	
					PM < 10 micron	80	93	No	Null	Mfr/ Vendor data	Null	0.5	8	Yes	
TREA 35	Null	Flour Mill	Donaldson (DLMC 3/5/15)	3/1/2024	Particulate Matter	100	99	Yes	Other	Mfr/ Vendor data	Null	0.5	8	Yes	

Fabric Filters

AI ID (Name): 1685 (Archer Daniels Midland Co - Red Wing)

Activity: IND20230001

Subject Item Type	Subject Item ID	Delta Designation	Description	Manufacturer (Model #)	Installation Start Date	Pollutants Controlled	Capture Efficiency (%)	Destruction/Collect Efficiency (%)	Subject to CAM?	Large or Other PSEU?	Efficiency Basis	Other Basis Explanation	Filter Min Pressure Drop (in. of w.c.)	Filter Max Pressure Drop (in. of w.c.)	Bag leak detector in use?
018-Fabric Filter - Low Temp, T<180 Degrees F	TREA 35	Null	Flour Mill	Donaldson (DLMC 3/5/15)	3/1/2024	PM < 2.5 micron	100	93	No	Null	Mfr/ Vendor data	Null	0.5	8	Yes
						PM < 10 micron	100	93	Yes	Other	Mfr/ Vendor data	Null	0.5	8	Yes
	TREA 36	Null	Flour Mill Truck Dump	Donaldson (DLMC 2/3/15)	2/1/2015	Particulate Matter	80	99	No	Null	Mfr/ Vendor data	Null	0.5	8	Yes
						PM < 2.5 micron	80	99	No	Null	Mfr/ Vendor data	Null	0.5	8	Yes
						PM < 10 micron	80	99	No	Null	Mfr/ Vendor data	Null	0.5	8	Yes

SI Id	Sequence	Requirement
TFAC 1	35	Process Throughput <= 578,160 tons per year 12-month rolling sum of grain (as defined in Minn. R. 7007.0100, subp. 21b) received to be calculated by the last day of each month for the previous 12-month period as described later in this permit. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	40	Process Throughput: Daily Grain Throughput Recordkeeping: For each 24-hour period beginning at 7 A.M., the Permittee shall calculate, record, and maintain records of the daily grain accepted by the facility for the previous 24-hour period (7 A.M. - 7 A.M.). [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	45	Process Throughput: Monthly Recordkeeping. By the last day of the month, the Permittee shall calculate and record the following: 1) The total grain received for the previous calendar month using the daily receiving records; 2) The 12-month rolling sum of grain received for the previous 12-month period by summing the monthly grain received data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	1240	Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in Appendices A (Insignificant Activities and General Applicable Requirements), B (Solvent Loss Record), C (Fugitive Emission Control Plan), D (40 CFR pt. 63, Subpart A—General Provisions), E (40 CFR pt. 63, Subpart GGGG—National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production), F (40 CFR pt. 63, Subpart DDDDD—National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters), and G (40 CFR pt. 63, Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [Minn. R. 7007.0800, subp. 2(A) & (B)]
	1245	The Permittee must comply with Minn. Stat. 116.385. The Permittee may not use trichloroethylene at its permitted facility after June 1, 2022, including in any manufacturing, processing, or cleaning processes, except as described in Minn. Stat. 116.385, subd. 2(b) and 4. This is a state-only requirement and is not enforceable by the U.S. Environmental Protection Agency (EPA) Administrator and citizens under the Clean Air Act. [Minn. Stat. 116.385]
	1260	PERMIT SHIELD: Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements. This permit shall not alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance. [Minn. R. 7007.1800(A)(2)]
	1280	Comply with Fugitive Emission Control Plan: The Permittee shall follow the actions and recordkeeping specified in the fugitive dust control plan in Appendix C of this permit. If the Commissioner determines the Permittee is out of compliance with Minn. R. 7011.0150 or the fugitive control plan, then the Permittee may be required to amend the control plan and/or to install and operate particulate matter ambient monitors as requested by the Commissioner. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7009.0020, Minn. R. 7011.0150, Minn. Stat. 116.07, subd. 4a]
	1290	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 7009.0090. Compliance shall be demonstrated upon written request by the MPCA. [Minn. R. 7007.0800, subp. 2(A) & (B), Minn. R. 7009.0020-7009.0090, Minn. Stat. 116.07, subd. 4a(a)]
	1380	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. [Minn. R. 7011.0020]
	1390	Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated. [Minn. R. 7007.0800, subp. 16(J), Minn. R. 7007.0800, subp. 2(A) & (B)]

SI Id	Sequence	Requirement
	1400	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 control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices 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 practices, and the records kept to demonstrate plan implementation. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 16(J)]
	1410	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. [Minn. R. 7019.1000, subp. 4]
	1420	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. [Minn. R. 7011.0150]
	1430	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. [Minn. R. 7030.0010-7030.0080]
	1440	Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A). [Minn. R. 7007.0800, subp. 9(A)]
	1450	The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16. [Minn. R. 7007.0800, subp. 16]
	1460	Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in this permit. [Minn. R. ch. 7017]
	1470	Performance Test Notifications and Submittals: Performance Test Notification and Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due seven days before each Performance Test Performance Test Report: due 45 days after each Performance Test The Notification, Test Plan, and Test Report must be submitted in a format specified by the commissioner. [Minn. R. 7017.2017, Minn. R. 7017.2030, subps. 1-4, Minn. R. 7017.2035, subps. 1-2]
	1480	Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change. [Minn. R. 7017.2025, subp. 3]
	1490	Monitoring Equipment Calibration - The Permittee shall either: 1. Calibrate or replace required monitoring equipment every 12 months; or 2. Calibrate at the frequency stated in the manufacturer's specifications. For each monitor, the Permittee shall maintain a record of all calibrations, including the date conducted, and any corrective action that resulted. The Permittee shall include the calibration frequencies, procedures, and manufacturer's specifications (if applicable) in the Operations and Maintenance Plan. Any requirements applying to continuous emission monitors are listed separately in this permit. [Minn. R. 7007.0800, subp. 4(D)]
	1500	Operation of Monitoring Equipment: Unless noted elsewhere in this permit, 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. [Minn. R. 7007.0800, subp. 4(D)]

SI Id	Sequence	Requirement
	1510	Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for 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). [Minn. R. 7007.0800, subp. 5(C)]
	1520	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. [Minn. R. 7007.0800, subp. 5(B)]
	1530	If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For expiring permits, these records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format. [Minn. R. 7007.1200, subp. 4]
	1540	<p>These following 40 CFR Section 52.21(r)(6) requirements apply if a reasonable possibility (RP) as defined in 40 CFR Section 52.21(r)(6)(vi) exists that a proposed project, analyzed using the actual-to-projected-actual (ATPA) test (either by itself or as part of the hybrid test at 40 CFR Section 52.21(a)(2)(iv)(f)) and found to not be part of a major modification, may result in a significant emissions increase (SEI). If the ATPA test is not used for the project, or if there is no RP that the proposed project could result in a SEI, these requirements do not apply to that project. The Permittee is only subject to the Preconstruction Documentation requirement for a project where a RP occurs only within the meaning of 40 CFR Section 52.21(r)(6)(vi)(b).</p> <p>Even though a particular modification is not subject to New Source Review (NSR), or where there isn't a RP that a proposed project could result in a SEI, a permit amendment, recordkeeping, or notification may still be required by Minn. R. 7007.1150 - 7007.1500. [Minn. R. 7007.0800, subp. 2(A), Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]</p>
	1550	<p>Preconstruction Documentation -- Before beginning actual construction on a project, the Permittee shall document the following:</p> <ol style="list-style-type: none"> 1. Project description 2. Identification of any emission unit whose emissions of an NSR pollutant could be affected 3. Pre-change potential emissions of any affected existing emission unit, and the projected post-change potential emissions of any affected existing or new emission unit. 4. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded due to increases not associated with the modification and that the emission unit could have accommodated during the baseline period, an explanation of why the amounts were excluded, and any credible contemporaneous increases and decreases that were considered in the determination. <p>The Permittee shall maintain records of this documentation. [Minn. R. 7007.0800, subps. 4-5, Minn. R. 7007.1200, subp. 4, Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]</p>
	1560	The Permittee shall monitor the actual emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using the ATPA test, and the potential emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using potential emissions in the hybrid test. The Permittee shall calculate and maintain a record of the sum of the actual and potential (if the hybrid test was used in the analysis) emissions of the regulated pollutant, in tons per year on a calendar year basis, for a period of five years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity of or potential to emit of any unit associated with the project. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	1570	<p>The Permittee must submit a report to the Agency if the annual summed (actual, plus potential if used in hybrid test) emissions differ from the preconstruction projection and exceed the baseline actual emissions by a significant amount as listed at 40 CFR Section 52.21(b)(23). Such report shall be submitted to the Agency within 60 days after the end of the year in which the exceedances occur. The report shall contain:</p> <ol style="list-style-type: none"> The name and ID number of the Facility, and the name and telephone number of the Facility contact person. The annual emissions (actual, plus potential if any part of the project was analyzed using the hybrid test) for each pollutant for which the preconstruction projection and significant emissions increase are exceeded. Any other information, such as an explanation as to why the summed emissions differ from the preconstruction projection. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: 40 CFR 52.21(r)(6) and Minn. R. 7007.3000]
	1610	<p>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.</p> <p>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. [Minn. R. 7019.1000, subp. 3]</p>
	1620	<p>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.</p> <p>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. [Minn. R. 7019.1000, subp. 2]</p>
	1630	<p>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. [Minn. R. 7019.1000, subp. 1]</p>
	1640	<p>Notification of Deviations Endangering Human Health or the Environment Report: Within two 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:</p> <ol style="list-style-type: none"> the cause of the deviation; the exact dates of the period of the deviation, if the deviation has been corrected; whether or not the deviation has been corrected; the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation. [Minn. R. 7019.1000, subp. 1]
	1650	<p>The Permittee must submit a semiannual deviations report : Due semiannually, by the 30th of January and July. The first semiannual report submitted by the Permittee must 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. Submit this on form DRF-2 (Deviation Reporting Form). If no deviations have occurred, submit the signed report certifying that there were no deviations. [Minn. R. 7007.0800, subp. 6(B)(2)]</p>

SI Id	Sequence	Requirement
	1670	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. Upon adoption of a new or amended federal applicable requirement, and if there are three or more years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150 - 7007.1500]
	1680	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). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H). [Minn. R. 7007.1400, subp. 1(H)]
	1700	The Permittee must submit a compliance certification : Due annually, by the 31st of January (for the previous calendar year). Submit this on form CR-04 (Annual Compliance Certification Report). This report covers all deviations experienced during the calendar year. If no deviations have occurred, submit the signed report certifying that there were no deviations. [Minn. R. 7007.0800, subp. 6(D)]
	1703	Within 15 days of a request from the Commissioner, the Permittee must provide a complete summary of all performance tests required at the facility including the subject item, pollutant, most recent test date (if applicable), and the date of the next test in an approved format. [Minn. R. 7007.0800, subp. 16(L)]
	1710	The Permittee shall submit an application for permit reissuance : Due 180 calendar days before Permit Expiration Date. [Minn. R. 7007.0400, subp. 2]
	1730	Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance. Submit in a format specified by the Commissioner. [Minn. R. 7019.3000-7019.3100]
	1740	Emission Fees: due 30 days after receipt of an MPCA bill. [Minn. R. 7002.0005-7002.0085]
COMG 5	2	This requirement applies individually to each COMG 5 emission unit. [Minn. R. 7007.0800, subp. 2(A)]
	3	Opacity <= 5 percent opacity from handling operation fugitive (uncaptured) emissions. [Minn. R. 7011.1005, subp. 3(A)]
COMG 6	10	These requirements apply individually to each COMG 6 emission unit. [Minn. R. 7007.0800, subp. 2(A)]
	3680	Opacity <= 20 percent opacity. [Minn. R. 7011.0715, subp. 1(B)]
	3690	Particulate Matter <= 0.30 grains per 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. [Minn. R. 7011.0715, subp. 1(A)]
COMG 7	3	Compliance Ratio: Volatile Organic Compounds <= 0.90 (no units) to be calculated by the last day of each month for the previous 12-month operating period as described later in this permit. [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(A), Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR pt. 52]
	11	Volatile Organic Compounds: Daily Recordkeeping: For each day of operation, the Permittee shall record, and maintain the total solvent usage/loss in gallons. This shall be based on the daily solvent inventory (beginning and ending gallons), solvent delivery receipts, and the in-process solvent quantity. [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR pt. 52]
	13	Process Throughput: Daily Recordkeeping: For each day of operation, the Permittee shall record and maintain the total process throughput in tons for each seed type. This shall be based on the measured amount of oil produced (lbs), the seed-specific oil yield value (lbs oil/bushel of seed), seed-specific conversion factor (lbs/bushel), and the conversion to metric tons (2,204.62 lbs/ton). [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR pt. 52]
	14	Volatile Organic Compounds: Monthly Recordkeeping of Solvent: By the last day of each month the Permittee shall calculate and record the solvent usage/loss for the previous month by summing the daily solvent usage/loss. [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR pt. 52]

SI Id	Sequence	Requirement
	23	Process Throughput: Monthly Recordkeeping of Throughput: By the last day of each month, the Permittee shall calculate and record the throughput for the previous month by summing the daily amount of oilseed processed for each oilseed type. [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR pt. 52]
	25	<p>Volatile Organic Compounds: Monthly Compliance Ratio Calculation and Recordkeeping: By the end of each calendar month following an operating month, the Permittee shall calculate and record the compliance ratio for the previous 12 operating months. The compliance ratio must be less than or equal to 0.90.</p> <p>An operating month is any calendar month with at least one normal operating period. It does not include malfunction periods. A normal operating period is defined in 40 CFR Section 63.2872 except that instead of listed oilseeds, the operating period and normal operating periods also includes processing of oilseeds that are not listed. [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5, Minn. Stat. 116.07, subd. 4a, a, Title I Condition: 40 CFR pt. 52]</p>
	26	<p>Volatile Organic Compounds: Volatile Organic Compounds: Monthly Compliance Ratio Calculation Method - Capacity Weighted Average for the VOC SLR Limit:</p> <p>Compliance Ratio = Actual Solvent Loss/ Summation ((Crushi)*(SLFi)) Actual Solvent Loss = Gallons of actual solvent loss during previous 12 operating months excluding any allowable losses during malfunction periods as defined in paragraph 74 of the Consent Decree. Crushi = Tons of each oil seed type "i" processed during the previous 12 operating months. SLFi = The corresponding solvent loss factor (gal/ton) for oil seed "i" as listed in Table 1 of 40 CFR Section 63.2840. Use an SLFi of 0.7 gal/ton for species in the non-rapeseed Brassicaceae and Cannabaceae families. [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5, Minn. Stat. 116.07, subd. 4(a), Title I Condition: 40 CFR pt. 52]</p>
	27	<p>Volatile Organic Compounds: Malfunctions: ADM may apply the provisions of 40 CFR pt. 63, subp. GGGG pertaining to malfunction periods only when the following two conditions are met:</p> <ol style="list-style-type: none"> 1) The malfunction results in total plant shutdown. A "total plant shutdown" means a shutdown of the solvent extraction system. 2) Cumulative solvent losses during malfunction periods at a plant do not exceed 4,000 gallons in a 12-month period. <p>At all other times, ADM must include all solvent losses when determining compliance with its VOC SLR limit. During a malfunction period, ADM shall comply with the startup, shutdown and malfunction (SSM) plan as required under 40 CFR pt. 63, subp. GGGG for the plant. The solvent loss corresponding to a malfunction period will be calculated as the difference in the total solvent inventories for the day before the malfunction period began and the day the plant resumes normal operation. [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR pt. 52]</p>
	28	<p>Volatile Organic Compounds: SLR LIMIT: Compliance with the VOC SLR limit shall be determined in accordance with 40 CFR pt. 63, subp. GGGG with the following exceptions:</p> <ol style="list-style-type: none"> 1) Provisions pertaining to HAP content shall not apply. 2) Monitoring and recordkeeping of solvent losses shall be conducted daily. 3) Solvent losses and quantities of oilseed produced during startup and shutdown periods shall not be excluded in determining solvent losses. 4) Records shall be kept in the form of the table in Appendix B of this permit, showing total solvent losses, solvent losses during malfunction periods, adjusted solvent losses (minus malfunction losses) monthly and on a twelve-month rolling basis. [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5, Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR pt. 52]

SI Id	Sequence	Requirement
	30	<p>Volatile Organic Compounds: Annual Compliance Certification: due by July 1 of each calendar year for the 12-month period beginning May 1 and ending April 30. The compliance certification shall include:</p> <ol style="list-style-type: none"> 1) The name and address of the Permittee; 2) The physical address of the vegetable oil production process; 3) Each oilseed type processed during the 12 calendar month period covered by the report; 4) Each HAP identified under 40 CFR 63.2854(a) as being present in concentrations greater than 1 percent by volume in each delivery of solvent received during the 12 calendar month period covered by the report; 5) A statement designating the source as a major source of HAP; and 6) A compliance certification to indicate whether the source was in compliance for each compliance determination made during the 12 calendar month period covered by the report, including: <ol style="list-style-type: none"> a) A certification that the Permittee is following the procedures described in the plan for demonstrating compliance; and b) A certification that the compliance ratio is less than or equal to 0.90. [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(a), Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR pt. 52]
	12250	<p>the Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. F as follows:</p> <ul style="list-style-type: none"> 40 CFR 63.1(a); 40 CFR 63.1(b)(1); 40 CFR 63.1(b)(3); 40 CFR 63.1(c)(1); 40 CFR 63.1(c)(2); 40 CFR 63.1(c)(5); 40 CFR 63.1(c)(6); 40 CFR 63.1(e); 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4(a)-(c); 40 CFR 63.5(a); 40 CFR 63.5(b); 40 CFR 63.5(d)(1)(i); 40 CFR 63.5(d)(1)(ii)(A)-(F) and (J); 40 CFR 63.5(d)(3)(i); 40 CFR 63.5(d)(3)(iii)-(vi); 40 CFR 63.5(d)(4); 40 CFR 63.5(e); 40 CFR 63.5(f); 40 CFR 63.6(b)(4); 40 CFR 63.6(b)(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1); 40 CFR 63.6(c)(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(f)(2); 40 CFR 63.6(f)(3);

SI Id	Sequence	Requirement
		<p>40 CFR 63.9(i)-(k); 40 CFR 63.10(a)(5)-(7); 40 CFR 63.10(b)(1); 40 CFR 63.10(b)(2)(xiii); 40 CFR 63.10(b)(2)(xiv); 40 CFR 63.10(b)(3); 40 CFR 63.10(d)(1); 40 CFR 63.10(f); 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; 40 CFR 63.15(a); 40 CFR 63.15(b); and 40 CFR 63.16. A copy of 40 CFR pt. 63, subp. A is included in Appendix D.</p> <p>If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR 63.2870, 40 CFR pt. 63, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.7840, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>
12670		Compliance Ratio HAPs <= 1.00 (no units) 12-month rolling sum, as calculated using the formulas in 40 CFR pt. 63, subp. GGGG. [40 CFR 63.2840(a)-(d), Minn. R. 7011.7840]
12680		<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. GGGG, as follows:</p> <p>40 CFR 63.2832(a); 40 CFR 63.2833(a)(6); 40 CFR 63.2840(a)-(d); 40 CFR 63.2840(f); 40 CFR 63.2840(g); 40 CFR 63.2850(a)(1); 40 CFR 63.2850(a)(2); 40 CFR 63.2850(a)(4); 40 CFR 63.2850(a)(5); 40 CFR 63.2850(a)(6); 40 CFR 63.2850(c); 40 CFR 63.2850(e); 40 CFR 63.2851;</p>

SI Id	Sequence	Requirement
		<p>40 CFR 63.2853; 40 CFR 63.2854; 40 CFR 63.2855; 40 CFR 63.2860(c); 40 CFR 63.2861(a); 40 CFR 63.2861(b); 40 CFR 63.2861(e)-(i); 40 CFR 63.2862(a)-(d); 40 CFR 63.2862(f)-(h); 40 CFR 63.2863; 40 CFR 63.2870; and 40 CFR 63.2872.</p> <p>A copy of 40 CFR pt. 63, subp. GGGG is included in Appendix E.</p> <p>If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. GGGG, Minn. R. 7007.0400, subp. 3, Minn. R. 7011.7840]</p>
	12690	<p>The Permittee must submit a compliance certification : Due annually, before the end of each year following notification of compliance status. The certification must include the following:</p> <p>(1) The name and address of the owner or operator; (2) The physical address of the vegetable oil production process; (3) Each oilseed type processed during the 12 calendar months period covered by the report. (4) Each HAP identified under 40 CFR Section 63.2854(a) as being present in concentrations greater than 1 percent by volume in each delivery of solvent received during the 12 calendar months period covered by the report. (5) A statement designating the source as a major source of HAP or a demonstration that the source qualifies as an area source. An area source is a source that is not a major source and is not collocated within a plant site with other sources that are individually or collectively a major source; and (6) A compliance certification to indicate whether the source was in compliance for each compliance determination made during the 12 calendar months period covered by the report. For each such compliance determination, the Permittee must include a certification of the following: (i) The Permittee is following the procedures described in the plan for demonstrating compliance. (ii) The compliance ratio is less than or equal to 1.00.</p> <p>On and after September 15, 2020, all compliance certifications shall be submitted via CEDRI. If the Permittee claims EPA system outage or force majeure as the reason for failure to timely comply with a reporting requirement, the written notifications described in 40 CFR 63.2861(h)-(i) must be submitted to the Administrator at the appropriate address listed in 40 CFR 63.13 and emailed to the MPCA as directed in Section 2 of this permit for other compliance submittals. [40 CFR 63.2861(a), 40 CFR 63.2861(g), Minn. R. 7011.7840]</p>
COMG 8	2	<p>The Permittee shall limit Particulate Matter \leq 4.99 tons per year 12-month rolling sum to be calculated by the last day of each month for the previous 12-month period as described later in this permit. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]</p>
	3	<p>The Permittee shall limit PM < 10 micron \leq 4.99 tons per year 12-month rolling sum to be calculated by the last day of each month for the previous 12-month period as described later in this permit. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]</p>
	4	<p>The Permittee shall limit PM < 2.5 micron \leq 4.99 tons per year 12-month rolling sum to be calculated by the last day of each month for the previous 12-month period as described later in this permit. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]</p>

SI Id	Sequence	Requirement
	11	PM < 10 micron: Daily Recordkeeping. On each day of operation, the Permittee shall calculate, record, and maintain a record of the total quantity of seeds transferred using the bin/silo inventory. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	12	<p>PM < 10 micron: Monthly Recordkeeping. By the last of the month, the Permittee shall calculate and record the following:</p> <ol style="list-style-type: none"> 1) The total seed throughput for the previous calendar month using the daily records; 2) The PM10 emissions for the previous month by multiplying the most recent PM10 emission factor from stack testing (in lb PM10 per ton of seeds transferred) by the seed throughput amount (tons per month) and converting to tons of emissions per month by dividing by 2000 lbs per ton; and 3) The 12-month rolling sum PM < 10 micron emissions for the previous 12-month period by summing the monthly PM < 10 micron emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	19810	<p>PM < 10 micron: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to update the emission factor of 0.00128 lb PM10/ton seed.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 201A and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]</p>
	19820	<p>PM < 2.5 micron: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to update the emission factor of 0.00128 lb PM2.5/ton seed.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 201A and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1]</p>

SI Id	Sequence	Requirement
	19830	<p>Particulate Matter: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to verify the emission factor of 0.0010 lb PM/ton seed.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 5 and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1]</p>
COMG 9	19810	<p>PM < 10 micron: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to update the emission factor of 0.0110 lbs PM10 per ton of seed.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 201A and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1]</p>
	19820	<p>PM < 2.5 micron: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to update the emission factor of 0.0110 lbs PM10 per ton of seed.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 201A and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1]</p>

SI Id	Sequence	Requirement
	19830	<p>Particulate Matter: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to update the emission factor of 0.0110 lbs PM10 per ton of seed.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 5 and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1]</p>
COMG 10	4	Particulate Matter \leq 13.93 tons per year 12-month rolling sum to be calculated by the last day of each month for the previous 12-month period as described later in this permit. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	6	Particulate Matter: Daily Recordkeeping. On each day of operation, the Permittee shall calculate, record, and maintain a record of the total quantity of seeds crushed in tons. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	8	<p>Particulate Matter: Monthly Recordkeeping. By the last day of the month, the Permittee shall calculate and record the following:</p> <ol style="list-style-type: none"> 1) The amount of seed crushed (tons) for the previous calendar month using the daily records; 2) The PM emissions for the previous month by multiplying the most recent PM emission factor from stack testing (in lb pollutant per ton of seeds crushed) by the amount of seeds crushed (tons per month) and converting to tons of emissions per month by dividing by 2000 lbs per ton; and 3) The 12-month rolling sum PM, PM10, and PM2.5 emissions for the previous 12-month period by summing the monthly PM, PM10, and PM2.5 emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]
	19810	<p>PM < 10 micron: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to update the emission factor of 0.00467 lb PM10 per ton seed.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 201A and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1]</p>

SI Id	Sequence	Requirement
	19820	<p>PM < 2.5 micron: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to update the emission factor of 0.00467 lb PM2.5 per ton seed.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 201A and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1]</p>
	19830	<p>Particulate Matter: The Permittee shall conduct a performance test due before 08/16/2026 and every 60 months thereafter to update the emission factor of 0.00452 lbs PM per ton seed.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 5 and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7017.2020, subp. 1, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]</p>
COMG 11	2	Particulate Matter <= 95.0 tons per year 12-month rolling sum to be calculated by the last day of each month for the previous 12-month period as described later in this permit. [Minn. R. 7007.0800, subp. 2(A), avoid lrg PSEU 40 CFR pt. 64]
	3	PM < 10 micron <= 95.0 tons per year 12-month rolling sum to be calculated by the last day of each month for the previous 12-month period as described later in this permit. [Minn. R. 7007.0800, subp. 2(A), avoid lrg PSEU 40 CFR pt. 64]
	4	PM < 2.5 micron <= 95.0 tons per year 12-month rolling sum to be calculated by the last day of each month for the previous 12-month period as described later in this permit. [Minn. R. 7007.0800, subp. 2(A), avoid lrg PSEU 40 CFR pt. 64]
	6	Particulate Matter: Daily Recordkeeping. On each day of operation, the Permittee shall calculate, record, and maintain a record of the total quantity of pellets produced in tons. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	8	<p>Particulate Matter: Monthly Recordkeeping. By the last day of the month, the Permittee shall calculate and record the following:</p> <ol style="list-style-type: none"> 1) The amount of pellets produced (tons) for the previous calendar month using the daily records; 2) The PM, PM10, and PM2.5 emissions for the previous month by multiplying the most recent emission factor from stack testing for each pollutant (in lb pollutant per ton of pellets) by the amount of pellets produced (tons per month) and converting to tons of emissions per month by dividing by 2000 lbs per ton; and 3) The 12-month rolling sum PM, PM10, and PM2.5 emissions for the previous 12-month period by summing the monthly PM, PM10, and PM2.5 emissions data for the previous 12 months. [Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	19810	<p>PM < 10 micron: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to verify the emission factor of 0.0108 lbs PM10 per ton of pellets.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 201A and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7007.0800, subp. 2(A), avoid lrg PSEU 40 CFR pt. 64, Minn. R. 7017.2020, subp. 1]</p>
	19820	<p>PM < 2.5 micron: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to verify the emission factor of 0.0108 lbs PM2.5 per ton of pellets.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 201A and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7007.0800, subp. 2(A), avoid lrg PSEU 40 CFR pt. 64, Minn. R. 7017.2020, subp. 1]</p>
	19830	<p>Particulate Matter: The Permittee shall conduct a performance test due before 08/18/2026 and every 60 months thereafter to verify the emission factor of 0.0108 lbs PM per ton of pellets.</p> <p>The first test is due by the date specified above and all subsequent tests shall be completed every 60 months thereafter by the due date (month and day) and as described below. The performance test shall be conducted at worst-case conditions defined at Minn. R. 7017.2005, subp. 8 or at the operating conditions described at Minn. R. 7017.2025, subp. 2, using EPA Reference Methods 5 and 202, or other method approved by MPCA in the performance test plan approval.</p> <p>Testing conducted during the 60 days prior to the performance test due date will not reset the test due date for future testing as required by this permit or within a Notice of Compliance letter.</p> <p>Testing conducted more than 60 days prior to the performance test due date satisfies this test due date requirement but will reset future performance test due dates based on the performance test date. [Minn. R. 7007.0800, subp. 2(A), avoid lrg PSEU 40 CFR pt. 64, Minn. R. 7017.2020, subp. 1]</p>
EQUI 9	1	The Permittee shall vent emissions from EQUI 9 to control equipment meeting the requirements of TREA 14 whenever EQUI 9 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 11	1	The Permittee shall vent emissions from EQUI 11 to control equipment meeting the requirements of TREA 13 whenever EQUI 11 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 13	1	The Permittee shall vent emissions from EQUI 13 to control equipment meeting the requirements of TREA 13 whenever EQUI 13 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
EQUI 14	1	The Permittee shall vent emissions from EQUI 14 to control equipment meeting the requirements of TREA 13 whenever EQUI 14 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 15	1	The Permittee shall vent emissions from EQUI 15 to control equipment meeting the requirements of TREA 13 whenever EQUI 15 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 17	1	The Permittee shall vent emissions from EQUI 17 to control equipment meeting the requirements of TREA 13 whenever EQUI 17 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 18	1	The Permittee shall vent emissions from EQUI 18 to control equipment meeting the requirements of TREA 20 whenever EQUI 18 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 19	1	The Permittee shall vent emissions from EQUI 19 to control equipment meeting the requirements of TREA 20 whenever EQUI 19 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 20	1	The Permittee shall vent emissions from EQUI 20 to control equipment meeting the requirements of TREA 20 whenever EQUI 20 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 21	1	The Permittee shall vent emissions from EQUI 21 to control equipment meeting the requirements of TREA 20 whenever EQUI 21 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 24	1	The Permittee shall vent emissions from EQUI 24 to control equipment meeting the requirements of TREA 14 whenever EQUI 24 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 30	1	The Permittee shall vent emissions from EQUI 30 to control equipment meeting the requirements of TREA 25 whenever EQUI 30 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 31	1	The Permittee shall vent emissions from EQUI 31 to control equipment meeting the requirements of TREA 21 whenever EQUI 31 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 32	1	The Permittee shall vent emissions from EQUI 32 to control equipment meeting the requirements of TREA 21 whenever EQUI 32 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 33	1	The Permittee shall vent emissions from EQUI 33 to control equipment meeting the requirements of TREA 21 whenever EQUI 33 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 34	1	The Permittee shall vent emissions from EQUI 34 to control equipment meeting the requirements of TREA 29 whenever EQUI 34 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 37	1	The Permittee shall vent emissions from EQUI 37 to control equipment meeting the requirements of TREA 25 whenever EQUI 37 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 38	1	The Permittee shall vent emissions from EQUI 38 to control equipment meeting the requirements of TREA 25 whenever EQUI 38 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 39	1	The Permittee shall vent emissions from EQUI 39 to control equipment meeting the requirements of TREA 20 whenever EQUI 39 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 42	1	The Permittee shall vent emissions from EQUI 42 to control equipment meeting the requirements of TREA 33 whenever EQUI 42 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 43	1	The Permittee shall vent emissions from EQUI 43 to control equipment meeting the requirements of TREA 33 whenever EQUI 43 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 44	1	The Permittee shall vent emissions from EQUI 44 to control equipment meeting the requirements of TREA 33 whenever EQUI 44 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 46	1	The Permittee shall vent emissions from EQUI 46 to control equipment meeting the requirements of TREA 14 whenever EQUI 46 operates. [Minn. R. 7007.0800, subp. 2(A)]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7).
		The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]

SI Id	Sequence	Requirement
	4600	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows:</p> <p>40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4).</p> <p>A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 46 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter \leq 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity \leq 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity \leq 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 47	1	The Permittee shall vent emissions from EQUI 47 to control equipment meeting the requirements of TREA 11 whenever EQUI 47 operates. [Title I Condition: 40 CFR 52.21(b)(2)(i) and 7007.3000]
EQUI 48	1	The Permittee shall vent emissions from EQUI 48 to control equipment meeting the requirements of TREA 29 whenever EQUI 48 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 49	1	The Permittee shall vent emissions from EQUI 49 to control equipment meeting the requirements of TREA 14 whenever EQUI 49 operates. [Minn. R. 7007.0800, subp. 2(A)]
	4590	<p>The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7).</p> <p>The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]</p>

SI Id	Sequence	Requirement
	4600	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows:</p> <p>40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4).</p> <p>A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 49 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>
	4930	<p>This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter \leq 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]</p>
	4940	<p>This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity \leq 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]</p>
	4970	<p>This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity \leq 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]</p>
	4980	<p>This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]</p>
	4981	<p>This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]</p>
EQUI 50	1	<p>The Permittee shall vent emissions from EQUI 50 to control equipment meeting the requirements of TREA 18 whenever EQUI 50 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]</p>
	4590	<p>The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7).</p> <p>The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]</p>

SI Id	Sequence	Requirement
	4600	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows:</p> <p>40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4).</p> <p>A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 50 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter \leq 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity \leq 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity \leq 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 53	1	The Permittee shall vent emissions from EQUI 53 to control equipment meeting the requirements of TREA 18 whenever EQUI 53 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 54	1	The Permittee shall vent emissions from EQUI 54 to control equipment meeting the requirements of TREA 13 whenever EQUI 54 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 55	1	The Permittee shall vent emissions from EQUI 55 to control equipment meeting the requirements of TREA 20 whenever EQUI 55 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 57	1	The Permittee shall vent emissions from EQUI 57 to control equipment meeting the requirements of TREA 20 whenever EQUI 57 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 58	1	The Permittee shall vent emissions from EQUI 58 to control equipment meeting the requirements of TREA 14 whenever EQUI 58 operates. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
EQUI 59	1	The Permittee shall vent emissions from EQUI 59 to control equipment meeting the requirements of TREA 20 whenever EQUI 59 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 60	1	The Permittee shall vent emissions from EQUI 60 to control equipment meeting the requirements of TREA 25 whenever EQUI 60 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 61	1	The Permittee shall vent emissions from EQUI 61 to control equipment meeting the requirements of TREA 29 whenever EQUI 61 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 61 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter \leq 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity \leq 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity \leq 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]

SI Id	Sequence	Requirement
EQUI 62	1	The Permittee shall vent emissions from EQUI 62 to control equipment meeting the requirements of TREA 33 whenever EQUI 62 operates. [Minn. R. 7007.0800, subp. 2(A)]
	2	Opacity <= 10 percent opacity from meal loadout fugitive (uncaptured) emissions. [Minn. R. 7011.1005, subp. 3(B)]
	3	Visible Emissions: At least once each day of operation during daylight hours, the Permittee shall check for visible emissions at the North opening of the truck loadout building while meal loading occurs. If no meal is loaded out at EQUI 62 during the operating day, then the Permittee shall record that no meal was loaded out. [Minn. R. 7007.0800, subps. 1-2]
	4	Visible Emissions: Recordkeeping: The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. The presence of visible emissions at the loading station is considered a deviation and must be reported in the semiannual deviations report required by this permit. [Minn. R. 7007.0800, subps. 4-5]
	5	Visible Emissions: Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed. Corrective actions include, but are not limited to, reducing the truck loading rate and ceasing operations until no visible emissions are observed. The Permittee shall keep a record of the type and date of any corrective action taken and whether or not the corrective actions eliminated the visible emissions. [Minn. R. 7007.0800, subps. 4-5]
	6	The South roll up door must be in the down position while loading occurs. If the door cannot be down, the permittee must conduct daily visual emission checks, following the procedures of Method 22 from 40 CFR 60 Appendix A-7, each day the door is not down. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
EQUI 63	1	The Permittee shall vent emissions from EQUI 63 to control equipment meeting the requirements of TREA 25 whenever EQUI 63 operates. [Minn. R. 7007.0800, subp. 2(A)]
	2	Opacity <= 5 percent opacity from railcar loading stations fugitive (uncaptured) emissions. [Minn. R. 7011.1005, subp. 3(A)]
	3	The two rollup doors must be in the down positions while loadout occurs. If the doors cannot be down, the permittee must conduct daily visual emission checks, following the procedures of Method 22 from 40 CFR 60 Appendix A-7, each day the doors are not down. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
	4	This requirement is triggered if the rollup doors cannot be closed due to equipment malfunction. Visible Emissions: At least once each day of operation during daylight hours, the Permittee shall check for visible emissions at the West opening of the truck loadout building while meal loading occurs. If no meal is loaded out at EQUI 63 during the operating day, then the Permittee shall record that no meal was loaded out. [Minn. R. 7007.0800, subps. 1-2]
	5	This requirement is triggered if the rollup doors cannot be closed due to equipment malfunction. Visible Emissions: Recordkeeping: The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. The presence of visible emissions at the loading station is considered a deviation and must be reported in the semiannual deviations report required by this permit. [Minn. R. 7007.0800, subps. 4-5]
	6	This requirement is triggered if the rollup doors cannot be closed due to equipment malfunction. Visible Emissions: Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed. Corrective actions include, but are not limited to, reducing the truck loading rate and ceasing operations until no visible emissions are observed. The Permittee shall keep a record of the type and date of any corrective action taken and whether or not the corrective actions eliminated the visible emissions. [Minn. R. 7007.0800, subps. 4-5]
EQUI 64	1	The Permittee shall vent emissions from EQUI 64 to control equipment meeting the requirements of TREA 18 whenever EQUI 64 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 65	1	The Permittee shall vent emissions from EQUI 65 to control equipment meeting the requirements of TREA 29 whenever EQUI 65 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	4590	<p>The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7).</p> <p>The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]</p>
	4600	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows:</p> <p>40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4).</p> <p>A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 65 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>
	4930	<p>This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter \leq 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]</p>
	4940	<p>This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity \leq 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]</p>
	4970	<p>This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity \leq 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]</p>
	4980	<p>This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]</p>
	4981	<p>This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]</p>
EQUI 67	1	<p>The Permittee shall vent emissions from EQUI 67 to control equipment meeting the requirements of TREA 18 whenever EQUI 67 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]</p>
EQUI 68	1	<p>The Permittee shall vent emissions from EQUI 68 to control equipment meeting the requirements of TREA 13 whenever EQUI 68 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]</p>

SI Id	Sequence	Requirement
EQUI 69	1	The Permittee shall vent emissions from EQUI 69 to control equipment meeting the requirements of TREA 26 whenever EQUI 69 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 70	1	The Permittee shall vent emissions from EQUI 70 to control equipment meeting the requirements of TREA 20 whenever EQUI 70 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 71	1	The Permittee shall vent emissions from EQUI 71 to control equipment meeting the requirements of TREA 14 whenever EQUI 71 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 72	1	The Permittee shall vent emissions from EQUI 72 to control equipment meeting the requirements of TREA 21 whenever EQUI 72 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 73	1	The Permittee shall vent emissions from EQUI 73 to control equipment meeting the requirements of TREA 25 whenever EQUI 73 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 75	1	The Permittee shall vent emissions from EQUI 75 to control equipment meeting the requirements of TREA 25 whenever EQUI 75 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 76	3610	Filterable Particulate Matter <= 0.60 pounds per million Btu heat input. The potential to emit from the unit is 0.025 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.0510, subp. 1]
	3620	Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0510, subp. 2]
	3632	Fuel type: Natural gas and fuel oil #2 only. Fuel oil #2 shall only be used during periods of gas curtailment as defined in 40 CFR 63.7575. [40 CFR 60.7575, Minn. R. 7005.0100, subp. 35a, Minn. R. 7011.7050]
	3637	The Permittee shall keep records of fuel purchases showing fuel types. [Minn. R. 7007.0800, subp. 5]
	12250	The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows: 40 CFR 63.1(a); 40 CFR 63.1(b)(1); 40 CFR 63.1(b)(3); 40 CFR 63.1(c)(1)-(2); 40 CFR 63.1(c)(5)-(6); 40 CFR 63.1(e); 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4(a)-(c); 40 CFR 63.5(a)-(b); 40 CFR 63.5(d)-(f); 40 CFR 63.6(a)(1)-(2); 40 CFR 63.6(b)(1)-(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1)-(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(e)(1)(iii); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g); except 40 CFR Section 63.7555(d)(13) specifies the procedure for application and approval of an alternative timeframe with the PM controls requirement in the startup work practice.

SI Id	Sequence	Requirement
		<p>40 CFR 63.6(i)(1)-(6); 40 CFR 63.6(i)(8)-(9); 40 CFR 63.6(i)(11); 40 CFR 63.6(j); 40 CFR 63.7(a)(2); 40 CFR 63.7(a)(2)(ix); 40 CFR 63.7(a)(3)-(4); 40 CFR 63.7(b)-(d); 40 CFR 63.7(e)(2)-(e)(9); 40 CFR 63.7(f)-(h); 40 CFR 63.8(b)(1)-(3); 40 CFR 63.8(c)(1); 40 CFR 63.8(c)(1)(ii); 40 CFR 63.8(c)(2)-(8); 40 CFR 63.8(d)(1)-(2); 40 CFR 63.8(d)(3); except for the last sentence, which refers to a startup, shutdown, and malfunction plan. Startup, shutdown, and malfunction plans are not required. 40 CFR 63.8(e)-(g); 40 CFR 63.9(b)(1)-(2);</p>
		<p>40 CFR 63.9(b)(4)-(5); 40 CFR 63.9(c)-(k); 40 CFR 63.10(a)(5)-(7); 40 CFR 63.10(b)(1); 40 CFR 63.10(b)(2)(i) 40 CFR 63.10(b)(2)(iii) 40 CFR 63.10(b)(2)(vi)-(xiv); 40 CFR 63.10(c)(1)-(9); 40 CFR 63.10(c)(12)-(13) 40 CFR 63.10(d)(1)-(2); 40 CFR 63.10(d)(4); 40 CFR 63.10(e)-(f); 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; 40 CFR 63.15(a)-(b); and</p> <p>A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. A, 40 CFR pt. 63, subp. DDDDD(Table 10), Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>

SI Id	Sequence	Requirement
	21090	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. DDDDD, as follows:</p> <p>40 CFR 63.7480; 40 CFR 63.7485; 40 CFR 63.7490(a)(1); 40 CFR 63.7490(d); 40 CFR 63.7495(b); 40 CFR 63.7495(d); 40 CFR 63.7499(l); 40 CFR 63.7500(a)(1); 40 CFR 63.7500(a)(3); 40 CFR 63.7500(f); 40 CFR 63.7505(a); 40 CFR 63.7515(d), five year tune-up frequency; 40 CFR 63.7540(a); 40 CFR 63.7540(a)(10)(i)-(vi); 40 CFR 63.7540(a)(12), units with continuous oxygen trim systems; 40 CFR 63.7540(a)(13); 40 CFR 63.7540(b); 40 CFR 63.7545(a); 40 CFR 63.7545(f); 40 CFR 63.7545(h); 40 CFR 63.7550(a); 40 CFR 63.7550(b), five year tune-up frequency; 40 CFR 63.7550(c)(1);</p>
		<p>40 CFR 63.7550(c)(5)(i)-(iii); 40 CFR 63.7550(c)(5)(xiv); 40 CFR 63.7550(c)(5)(xvii); 40 CFR 63.7550(h); 40 CFR 63.7550(h)(3); 40 CFR 63.7555(a)(1); 40 CFR 63.7555(h); 40 CFR 63.7560; 40 CFR 63.7565; 40 CFR 63.7570; 40 CFR 63.7575; 40 CFR pt. 63, subp. DDDDD, Table 3, items 1 and 4; 40 CFR pt. 63, subp. DDDDD, Table 9, item 1a; and 40 CFR pt. 63, subp. DDDDD, Table 10.</p> <p>A copy of 40 CFR pt. 63, subp. DDDDD is included in Appendix F.</p> <p>If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. DDDDD, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.7050]</p>

SI Id	Sequence	Requirement
	21100	<p>Compliance Report: The Permittee must submit a 5-year compliance report: Due January 31, 2026, and every 60 months thereafter. The first compliance report must cover the period beginning on January 31, 2016, and ending on December 31, 2020. The first compliance report must be postmarked or submitted no later than January 31, 2021. Each subsequent compliance report must cover the applicable 5-year period from January 1 to December 31. Five-year compliance reports must be postmarked or submitted no later than January 31.</p> <p>The Permittee must include the information listed in 40 CFR Section 63.7550(c)(5)(i)-(iii), (xiv), and (xvii) in the report and must submit the report according to 40 CFR Section 63.7550(h)(3). [40 CFR 63.7550(a)-(b), 40 CFR 63.7550(c)(1), 40 CFR pt. 63, subp. DDDDD(Table 9), Minn. R. 7011.7050]</p>
EQUI 77	1	The Permittee shall vent emissions from EQUI 77 to control equipment meeting the requirements of TREA 26 whenever EQUI 77 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 78	3570	Filterable Particulate Matter <= 0.40 pounds per million Btu heat input. The potential to emit from the unit is 0.0075 lb/MMBtu due to equipment design and allowable fuels. [Minn. R. 7011.0515, subp. 1]
	3580	Opacity <= 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity. [Minn. R. 7011.0515, subp. 2]
	3637	The Permittee shall keep records of fuel purchases showing fuel types. [Minn. R. 7007.0800, subp. 5]
	12250	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows:</p> <p>40 CFR 63.1(a); 40 CFR 63.1(b)(1); 40 CFR 63.1(b)(3); 40 CFR 63.1(c)(1)-(2); 40 CFR 63.1(c)(5)-(6); 40 CFR 63.1(e); 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4(a)-(c); 40 CFR 63.5(a)-(b); 40 CFR 63.5(d)-(f); 40 CFR 63.6(a)(1)-(2); 40 CFR 63.6(b)(1)-(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1)-(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(e)(1)(iii); 40 CFR 63.6(f)(2)-(3);</p>

SI Id	Sequence	Requirement
		<p>40 CFR 63.6(g); except 40 CFR Section 63.7555(d)(13) specifies the procedure for application and approval of an alternative timeframe with the PM controls requirement in the startup work practice.</p> <p>40 CFR 63.6(i)(1)-(6);</p> <p>40 CFR 63.6(i)(8)-(9);</p> <p>40 CFR 63.6(i)(11);</p> <p>40 CFR 63.6(j);</p> <p>40 CFR 63.7(a)(2);</p> <p>40 CFR 63.7(a)(2)(ix);</p> <p>40 CFR 63.7(a)(3)-(4);</p> <p>40 CFR 63.7(b)-(d);</p> <p>40 CFR 63.7(e)(2)-(e)(4);</p> <p>40 CFR 63.7(f)-(h);</p> <p>40 CFR 63.8(b)(1)-(3);</p> <p>40 CFR 63.8(c)(1);</p> <p>40 CFR 63.8(c)(1)(ii);</p> <p>40 CFR 63.8(c)(2)-(8);</p> <p>40 CFR 63.8(d)(1)-(2);</p> <p>40 CFR 63.8(d)(3); except for the last sentence, which refers to a startup, shutdown, and malfunction plan. Startup, shutdown, and malfunction plans are not required.</p>
		<p>40 CFR 63.8(e)-(g);</p> <p>40 CFR 63.9(b)(1)-(2);</p> <p>40 CFR 63.9(b)(4)-(5);</p> <p>40 CFR 63.9(c)-(k);</p> <p>40 CFR 63.10(a)(5)-(7);</p> <p>40 CFR 63.10(b)(1);</p> <p>40 CFR 63.10(b)(2)(i)</p> <p>40 CFR 63.10(b)(2)(iii)</p> <p>40 CFR 63.10(b)(2)(vi)-(xiv);</p> <p>40 CFR 63.10(c)(1)-(9);</p> <p>40 CFR 63.10(c)(12)-(13)</p> <p>40 CFR 63.10(d)(1)-(2);</p> <p>40 CFR 63.10(d)(4);</p> <p>40 CFR 63.10(e)-(f);</p> <p>40 CFR 63.12;</p> <p>40 CFR 63.13;</p> <p>40 CFR 63.14;</p> <p>40 CFR 63.15(a)-(b); and</p> <p>A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. A, 40 CFR pt. 63, subp. DDDDD(Table 10), Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.7050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>

SI Id	Sequence	Requirement
	21120	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. DDDDD, as follows:</p> <p>40 CFR 63.7480; 40 CFR 63.7485; 40 CFR 63.7490(a)(1); 40 CFR 63.7490(d); 40 CFR 63.7495(b); 40 CFR 63.7495(d); 40 CFR 63.7499; 40 CFR 63.7500(a)(1); 40 CFR 63.7500(a)(3); 40 CFR 63.7500(b); 40 CFR 63.7505(a); 40 CFR 63.7515(d), annual tune-up frequency; 40 CFR 63.7530(e); 40 CFR 63.7530(g); 40 CFR 63.7540(a)(10); 40 CFR 63.7540(a)(13); 40 CFR 63.7540(b); 40 CFR 63.7545(a); 40 CFR 63.7545(f);</p>
		<p>40 CFR 63.7545(h); 40 CFR 63.7550(a); 40 CFR 63.7550(b), annual tune-up frequency; 40 CFR 63.7550(c)(1); 40 CFR 63.7550(c)(5)(i)-(iii), (xiv), and (xvii); 40 CFR 63.7550(h)(3); 40 CFR 63.7555(a)(1); 40 CFR 63.7555(h); 40 CFR 63.7560; 40 CFR 63.7565; 40 CFR 63.7570; 40 CFR 63.7575; 40 CFR pt. 63, subp. DDDDD, Table 3, Item 3; 40 CFR pt. 63, subp. DDDDD, Table 9, Item 1; and 40 CFR pt. 63, subp. DDDDD, Table 10.</p> <p>A copy of 40 CFR pt. 63, subp. DDDDD is included in Appendix F.</p> <p>If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. DDDDD, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.7050]</p>
	21230	<p>The Permittee must submit an annual compliance report: Due January 31, 2024. The annual compliance report must cover the applicable one-year period from January 1 to December 31. Each subsequent annual compliance report must be postmarked or submitted no later than January 31. [40 CFR 63.7550(a)-(b), 40 CFR 63.7550(c)(1), 40 CFR pt. 63, subp. DDDDD(Table 9), Minn. R. 7011.7050]</p>
EQUI 80	1	<p>The Permittee shall vent emissions from EQUI 80 to control equipment meeting the requirements of TREA 29 whenever EQUI 80 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]</p>

SI Id	Sequence	Requirement
	4590	<p>The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7).</p> <p>The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]</p>
	4600	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows:</p> <p>40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4).</p> <p>A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 80 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>
	4930	<p>This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter \leq 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]</p>
	4940	<p>This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity \leq 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]</p>
	4970	<p>This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity \leq 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]</p>
	4980	<p>This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]</p>
	4981	<p>This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]</p>
EQUI 81	1	<p>EQUI 81 may not be considered controlled by TREA 11 unless the facility modifies the hood and conducts and submits a hood certification and evaluation according to the requirements of Minn. R. 7011.0072, subs. 2-4 and submits the appropriate amendment to incorporate the change. [Minn. R. 7007.0800, subp. 2(A)]</p>
	2	<p>Opacity \leq 5 percent opacity from railcar unloading stations fugitive (uncaptured) emissions. [Minn. R. 7011.1005, subp. 3(A)]</p>

SI Id	Sequence	Requirement
	3	Visible Emissions: At least once each day of operation during daylight hours, the Permittee shall check for visible emissions at the downwind opening of the rail unloading building while rail unloading occurs. If no grain is received at EQUI 81 during the operating day, then the Permittee shall record that no grain was received. [Minn. R. 7007.0800, subps. 1-2]
	4	Visible Emissions: Recordkeeping: The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. The presence of visible emissions at the loading station is considered a deviation and must be reported in the semiannual deviations report required by this permit. [Minn. R. 7007.0800, subps. 4-5]
	5	Visible Emissions: Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed. Corrective actions include, but are not limited to, reducing the rail unloading rate and ceasing operations until no visible emissions are observed. The Permittee shall keep a record of the type and date of any corrective action taken and whether or not the corrective actions eliminated the visible emissions. [Minn. R. 7007.0800, subps. 4-5]
EQUI 82	1	The Permittee shall vent emissions from EQUI 82 to control equipment meeting the requirements of TREA 11 whenever EQUI 82 operates. [Title I Condition: 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 85	1	The Permittee shall vent emissions from EQUI 85 to control equipment meeting the requirements of TREA 14 whenever EQUI 85 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 86	1	The Permittee shall vent emissions from EQUI 86 to control equipment meeting the requirements of TREA 14 whenever EQUI 86 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 87	1	The Permittee shall vent emissions from EQUI 87 to control equipment meeting the requirements of TREA 14 whenever EQUI 87 operates. [Minn. R. 7007.0800, subp. 2(A)]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 87 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]

SI Id	Sequence	Requirement
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 89	1	The Permittee shall vent emissions from EQUI 89 to control equipment meeting the requirements of TREA 29 whenever EQUI 89 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 89 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]

SI Id	Sequence	Requirement
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 90	1	The Permittee shall vent emissions from EQUI 90 to control equipment meeting the requirements of TREA 29 whenever EQUI 90 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4591	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 90 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4592	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1), Minn. R. 7011.1005, subp. 2]
	4593	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2), Minn. R. 7011.1005, subp. 2]
	4594	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2), Minn. R. 7011.1005, subp. 3(A)]

SI Id	Sequence	Requirement
	4595	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4596	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 91	1	The Permittee shall vent emissions from EQUI 91 to control equipment meeting the requirements of TREA 29 whenever EQUI 91 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 91 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]

SI Id	Sequence	Requirement
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 97	1	The Permittee shall vent emissions from EQUI 97 to control equipment meeting the requirements of TREA 18 whenever EQUI 97 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 98	1	The Permittee shall vent emissions from EQUI 98 to control equipment meeting the requirements of TREA 18 whenever EQUI 98 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 98 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]

SI Id	Sequence	Requirement
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 99	1	The Permittee shall vent emissions from EQUI 99 to control equipment meeting the requirements of TREA 18 whenever EQUI 99 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 99 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]

SI Id	Sequence	Requirement
EQUI 100	1	The Permittee shall vent emissions from EQUI 100 to control equipment meeting the requirements of TREA 18 whenever EQUI 100 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 101	1	The Permittee shall vent emissions from EQUI 101 to control equipment meeting the requirements of TREA 18 whenever EQUI 101 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 102	1	The Permittee shall vent emissions from EQUI 102 to control equipment meeting the requirements of TREA 18 whenever EQUI 102 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 103	1	The Permittee shall vent emissions from EQUI 103 to control equipment meeting the requirements of TREA 18 whenever EQUI 103 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 104	1	The Permittee shall vent emissions from EQUI 104 to control equipment meeting the requirements of TREA 18 whenever EQUI 104 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 105	1	The Permittee shall vent emissions from EQUI 105 to control equipment meeting the requirements of TREA 18 whenever EQUI 105 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 106	1	The Permittee shall vent emissions from EQUI 106 to control equipment meeting the requirements of TREA 18 whenever EQUI 106 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 107	1	The Permittee shall vent emissions from EQUI 107 to control equipment meeting the requirements of TREA 18 whenever EQUI 107 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 107 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]

SI Id	Sequence	Requirement
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 108	1	The Permittee shall vent emissions from EQUI 108 to control equipment meeting the requirements of TREA 18 whenever EQUI 108 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 108 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]

SI Id	Sequence	Requirement
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 109	1	The Permittee shall vent emissions from EQUI 109 to control equipment meeting the requirements of TREA 18 whenever EQUI 109 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 110	1	The Permittee shall vent emissions from EQUI 110 to control equipment meeting the requirements of TREA 18 whenever EQUI 110 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 112	1	The Permittee shall vent emissions from EQUI 112 to control equipment meeting the requirements of TREA 18 whenever EQUI 112 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 115	1	The Permittee shall vent emissions from EQUI 115 to control equipment meeting the requirements of TREA 13 whenever EQUI 115 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 116	1	The Permittee shall vent emissions from EQUI 116 to control equipment meeting the requirements of TREA 13 whenever EQUI 116 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 117	1	The Permittee shall vent emissions from EQUI 117 to control equipment meeting the requirements of TREA 13 whenever EQUI 117 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 118	1	The Permittee shall vent emissions from EQUI 118 to control equipment meeting the requirements of TREA 13 whenever EQUI 118 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 120	1	The Permittee shall vent emissions from EQUI 120 to control equipment meeting the requirements of TREA 36 whenever EQUI 120 operates. [Minn. R. 7007.0800, subp. 2(A)]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]

SI Id	Sequence	Requirement
	4600	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows:</p> <p>40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4).</p> <p>A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 120 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>
	4601	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from truck unloading. [Minn. R. 7011.1005, subp. 3(A)]
	4602	Visible Emissions: At least once each day of operation during daylight hours, the Permittee shall check for visible emissions at the downwind door of the truck unloading building while truck unloading occurs. If no grain is received at EQUI 120 during the operating day, then the Permittee shall record that no grain was received. [Minn. R. 7007.0800, subps. 1-2]
	4603	Visible Emissions: Recordkeeping: The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. The presence of visible emissions at the loading station is considered a deviation and must be reported in the semiannual deviations report required by this permit. [Minn. R. 7007.0800, subps. 4-5]
	4604	Visible Emissions: Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed. Corrective actions include, but are not limited to, reducing the truck unloading rate and ceasing operations until no visible emissions are observed. The Permittee shall keep a record of the type and date of any corrective action taken and whether or not the corrective actions eliminated the visible emissions. [Minn. R. 7007.0800, subps. 4-5]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 5 percent opacity from truck unloading fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(1) & Minn. R. 7011.1005, subp. 2]

SI Id	Sequence	Requirement
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 121	1	EQUI 121 may not be considered controlled by TREA 11 unless the facility modifies the hood and conducts and submits a hood certification and evaluation according to the requirements of Minn. R. 7011.0072, subps. 2-4 and submits the appropriate amendment to incorporate the change. [Minn. R. 7007.0800, subp. 2(A)]
	2	Opacity <= 5 percent opacity from railcar unloading stations fugitive (uncaptured) emissions. [Minn. R. 7011.1005, subp. 3(A)]
	3	Visible Emissions: At least once each day of operation during daylight hours, the Permittee shall check for visible emissions at the downwind opening of the rail unloading building while rail unloading occurs. If no grain is received at EQUI 121 during the operating day, then the Permittee shall record that no grain was received. [Minn. R. 7007.0800, subps. 1-2]
	4	Visible Emissions: Recordkeeping: The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. The presence of visible emissions at the loading station is considered a deviation and must be reported in the semiannual deviations report required by this permit. [Minn. R. 7007.0800, subps. 4-5]
	5	Visible Emissions: Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed. Corrective actions include, but are not limited to, reducing the rail unloading rate and ceasing operations until no visible emissions are observed. The Permittee shall keep a record of the type and date of any corrective action taken and whether or not the corrective actions eliminated the visible emissions. [Minn. R. 7007.0800, subps. 4-5]
EQUI 124	1	The Permittee shall vent emissions from EQUI 124 to control equipment meeting the requirements of TREA 26 whenever EQUI 124 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 125	1	The Permittee shall vent emissions from EQUI 125 to control equipment meeting the requirements of TREA 26 whenever EQUI 125 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 246	1	The Permittee shall vent emissions from EQUI 246 to control equipment meeting the requirements of TREA 14 whenever EQUI 246 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 247	1	The Permittee shall vent emissions from EQUI 247 to control equipment meeting the requirements of TREA 11 whenever EQUI 247 operates. [Title I Condition: 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 248	1	The Permittee shall vent emissions from EQUI 248 to control equipment meeting the requirements of TREA 14 whenever EQUI 248 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 249	1	The Permittee shall vent emissions from EQUI 249 to control equipment meeting the requirements of TREA 14 whenever EQUI 249 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 250	1	The Permittee shall vent emissions from EQUI 250 to control equipment meeting the requirements of TREA 14 whenever EQUI 250 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 252	1	The Permittee shall vent emissions from EQUI 252 to control equipment meeting the requirements of TREA 15 or TREA 25 whenever EQUI 252 operates. The Permittee is authorized to construct ducting to redirect flow from EQUI 252 to TREA 25 and remove TREA 15. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 253	1	The Permittee shall vent emissions from EQUI 253 to control equipment meeting the requirements of TREA 16 or TREA 25 whenever EQUI 253 operates. The Permittee is authorized to construct ducting to redirect flow from EQUI 253 to TREA 25 and remove TREA 16. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 329	1	The Permittee shall vent emissions from EQUI 329 to control equipment meeting the requirements of TREA 14 whenever EQUI 329 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 330	1	The Permittee shall vent emissions from EQUI 330 to control equipment meeting the requirements of TREA 18 whenever EQUI 330 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 331	1	The Permittee shall vent emissions from EQUI 331 to control equipment meeting the requirements of TREA 18 whenever EQUI 331 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
EQUI 332	1	The Permittee shall vent emissions from EQUI 332 to control equipment meeting the requirements of TREA 18 whenever EQUI 332 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 333	1	The Permittee shall vent emissions from EQUI 333 to control equipment meeting the requirements of TREA 13 whenever EQUI 333 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 334	1	The Permittee shall vent emissions from EQUI 334 to control equipment meeting the requirements of TREA 20 whenever EQUI 334 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 335	1	The Permittee shall vent emissions from EQUI 335 to control equipment meeting the requirements of TREA 20 whenever EQUI 335 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 336	1	The Permittee shall vent emissions from EQUI 336 to control equipment meeting the requirements of TREA 20 whenever EQUI 336 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 337	1	The Permittee shall vent emissions from EQUI 337 to control equipment meeting the requirements of TREA 11 whenever EQUI 337 operates. [Title I Condition: 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 338	1	The Permittee shall vent emissions from EQUI 338 to control equipment meeting the requirements of TREA 20 whenever EQUI 338 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 339	1	The Permittee shall vent emissions from EQUI 339 to control equipment meeting the requirements of TREA 29 whenever EQUI 339 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 343	1	The Permittee shall vent emissions from EQUI 343 to control equipment meeting the requirements of TREA 20 whenever EQUI 343 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 344	1	The Permittee shall vent emissions from EQUI 344 to control equipment meeting the requirements of TREA 20 whenever EQUI 344 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 345	1	The Permittee shall vent emissions from EQUI 345 to control equipment meeting the requirements of TREA 33 whenever EQUI 345 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 351	1	The Permittee shall vent emissions from EQUI 351 to control equipment meeting the requirements of TREA 25 whenever EQUI 351 operates. EQUI 351 is not currently in operation and is only authorized to be used provided the Permittee follows the steps required to recertify the hood found under EQUI 351 in section 6 of the Permit. [Minn. R. 7007.0800, subp. 2(A)]
	2	Opacity <= 20 percent opacity from ship or barge loading stations fugitive (uncaptured) emissions, except that during trimming or topping off, when normal loading procedures cannot be used, no opacity standard applies. [Minn. R. 7011.1005, subp. 3(C)]
	3	Visible Emissions: At least once each day of operation during daylight hours, the Permittee shall check for visible emissions from barge loading while barge loading occurs. If no meal is loaded out at EQUI 351 during the operating day, then the Permittee shall record that no meal was loaded out. [Minn. R. 7007.0800, subps. 1-2]
	4	Visible Emissions: Recordkeeping: The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed. The presence of visible emissions at the loading station is considered a deviation and must be reported in the semiannual deviations report required by this permit. [Minn. R. 7007.0800, subps. 4-5]
	5	Visible Emissions: Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed. Corrective actions include, but are not limited to, reducing the barge loading rate, installing a 12 inch blast gate, and ceasing operations until no visible emissions are observed. The Permittee shall keep a record of the type and date of any corrective action taken and whether or not the corrective actions eliminated the visible emissions. [Minn. R. 7007.0800, subps. 4-5]
	6	The Permittee must submit a notification of commencement of barge load out operations to the Agency within 15 days of recommencing barge load out operations. This notification will trigger the requirement to conduct a Hood Certification and Evaluation for barge load out operations. [Minn. R. 7007.0800, subp. 2]
	7	Initial Hood Certification and Evaluation: Within 120 days of recommencing barge load out operations, the control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subps. 2(B) and 3. The hood certification must address how cross-drafts are accommodated in the design (e.g. higher face velocity, oversized hoods, etc.) and the Permittee must certify this as specified in Minn. R. 7011.0072 subps. 2 and 3. The Permittee shall maintain the most current record of the hood evaluation and certification on site. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
	8	<p>The Permittee shall submit a report: Due 150 days after recommencing operation of the barge load out operation which certifies that the hood for EQUI 351 conforms to the requirements listed in TREA 25 for Hood Certification and Evaluation. The Permittee shall submit the results of the evaluation and certification on forms HE-01 and CR-02, along with any other information required by the forms or by this requirement. If multiple receiving pits or load out spouts are used, then a hood evaluation must be conducted for each one. At a minimum the report shall contain the following information:</p> <ol style="list-style-type: none"> 1) A copy of the original evaluation report conducted by qualified personnel; 2) A copy of the pages from any outdated edition of the Industrial Ventilation Manual, that informed the decisions made, with the relevant text highlighted; 3) An analysis and justification for how cross drafts are addressed in the design of the hood. The assumptions used need to be evaluated by qualified personnel in accordance with Minn. R.7011.0072, subp.2; 4) The name and credentials of the qualified personnel who conducted the hood evaluation; 5) A drawing of the actual Hood dimension and configuration, including length and width, and size and number of slots; and 6) A summary of the Actual Fan Rotation Speed and Fan Power Draw, or other parameters used in the Annual Hood Evaluation to verify that the parameters established in the evaluation test are being met or exceeded. <p>[Minn. R. 7007.0800, subp. 2, Minn. R. 7011.0072, subps. 2-4, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]</p>
EQUI 353	1	<p>The Permittee shall vent emissions from EQUI 353 to control equipment meeting the requirements of TREA 29 whenever EQUI 353 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]</p>
	4590	<p>The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7).</p> <p>The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]</p>
	4600	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows:</p> <p>40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4).</p> <p>A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 353 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>

SI Id	Sequence	Requirement
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 354	1	The Permittee shall vent emissions from EQUI 354 to control equipment meeting the requirements of TREA 29 whenever EQUI 354 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 354 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]

SI Id	Sequence	Requirement
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 355	1	The Permittee shall vent emissions from EQUI 355 to control equipment meeting the requirements of TREA 29 whenever EQUI 355 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 355 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]

SI Id	Sequence	Requirement
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 356	1	The Permittee shall vent emissions from EQUI 356 to control equipment meeting the requirements of TREA 29 whenever EQUI 356 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 365	1	The Permittee shall vent emissions from EQUI 365 to control equipment meeting the requirements of TREA 18 whenever EQUI 365 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 368	1	The Permittee shall vent emissions from EQUI 368 to control equipment meeting the requirements of TREA 25 whenever EQUI 368 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 369	1	The Permittee shall vent emissions from EQUI 369 to control equipment meeting the requirements of TREA 30 whenever EQUI 369 operates. [Minn. R. 7007.0800, subp. 2(A)]
	3370	The perforations of a column dryer screen must not exceed 3/32 inches in diameter. [Minn. R. 7011.1005, subp. 5(A)]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 369 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4950	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from a column dryer with a column plate perforation exceeding 2.4 mm (0.094 inch) diameter. [40 CFR 60.302(a)(1) & Minn. R. 7011.1005, subp. 2]

SI Id	Sequence	Requirement	
EQUI 370	1	The Permittee shall vent emissions from EQUI 370 to control equipment meeting the requirements of TREA 14 whenever EQUI 370 operates. [Minn. R. 7007.0800, subp. 2(A)]	
	4590	The Permittee shall submit notification of the date construction or replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]	
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 370 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]	
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter \leq 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]	
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity \leq 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]	
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity \leq 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]	
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]	
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]	
	EQUI 372	3520	Opacity \leq 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
		3535	Sulfur Dioxide \leq 0.0015 pounds per million Btu heat input. [Minn. R. 7011.2300, subp. 2(B)]
3540		Fuel type: No. 2 fuel oil/diesel fuel meeting the requirements of 40 CFR Section 80.510(c) only by design. [Minn. R. 7005.0100, subp. 35a]	

SI Id	Sequence	Requirement
	3550	Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency generator by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, that allows calculation of potential emissions based on 500 operating hours per year. [Minn. R. 7007.0800, subps. 4-5]
	3560	The Permittee shall keep records of fuel type and usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
	3565	Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of diesel fuel oil, certifying that the sulfur content does not exceed 0.0015 percent by weight. [Minn. R. 7007.0800, subps. 4-5]
	19505	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows:</p> <ul style="list-style-type: none"> 40 CFR 63.1(a); 40 CFR 63.1(b)(1); 40 CFR 63.1(b)(3); 40 CFR 63.1(c)(1)-(2); 40 CFR 63.1(c)(5)-(6); 40 CFR 63.1(e); 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4(a)-(c); 40 CFR 63.5(a)-(b); 40 CFR 63.5(d)-(f); 40 CFR 63.6(a)(1)-(2); 40 CFR 63.6(b)(1)-(4); 40 CFR 63.6(b)(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1)-(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g)(1)-(3); 40 CFR 63.6(i)(1)-(6); 40 CFR 63.6(i)(8)-(9); 40 CFR 63.6(i)(11);

SI Id	Sequence	Requirement
		<p>40 CFR 63.6(j); 40 CFR 63.7(a)(2); 40 CFR 63.7(a)(2)(ix); 40 CFR 63.7(a)(3); 40 CFR 63.7(b)(1)-(2); except that 63.7(b)(1) and (2) only apply as specified in 63.6645. 40 CFR 63.7(c)-(d); except that 63.7(c) only applies as specified in 63.6645. 40 CFR 63.7(e)(2)-(4); 40 CFR 63.7(f)-(h); 40 CFR 63.8(b)(1)-(3); 40 CFR 63.8(c)(1); 40 CFR 63.8(c)(1)(ii); 40 CFR 63.8(c)(2)-(3); 40 CFR 63.8(c)(4); except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS). 40 CFR 63.8(c)(6)-(8); except that subpart ZZZZ does not require COMS. 40 CFR 63.8(d); 40 CFR 63.8(e)(1)-(4); 40 CFR 63.8(e)(5)(i); except that 63.8(e) only applies as specified in 63.6645. 40 CFR 63.8(f)(1)-(6); except that 63.8(f)(4) and 63.8(f)(6) only apply as specified in 63.6645. 40 CFR 63.8(g); except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at 63.6635 and 63.6640. 40 CFR 63.9(b)(1)-(2); 40 CFR 63.9(b)(4)-(5); except that 63.9(b) only applies as specified in 63.6645. 40 CFR 63.9(c)-(e); except that 63.9(c)-(e) only apply as specified in 63.6645.</p>
		<p>40 CFR 63.9(g)(1); except that 63.9(g) only applies as specified in 63.6645. 40 CFR 63.9(h)-(j); 40 CFR 63.9(k); only as specified in 63.9(j). 40 CFR 63.10(a)(5)-(7); 40 CFR 63.10(b)(1); except that the most recent 2 years of data do not have to be retained on site. 40 CFR 63.10(b)(2)(vi)-(xiv); 40 CFR 63.10(b)(3); 40 CFR 63.10(c); 40 CFR 63.10(d)(1)-(2); 40 CFR 63.10(d)(4); 40 CFR 63.10(e)(1)-(2)(i); 40 CFR 63.10(e)(3); 40 CFR 63.10(f); 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; and 40 CFR 63.15(a)-(b).</p> <p>A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. A, 40 CFR pt. 63, subp. ZZZZ(Table 8), Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.8150, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>

SI Id	Sequence	Requirement
	27830	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. ZZZZ as follows:</p> <p>40 CFR 63.6580; 40 CFR 63.6585(a); 40 CFR 63.6585(b); 40 CFR 63.6590(a); 40 CFR 63.6590(a)(1)(ii); 40 CFR 63.6595(a)(1); 40 CFR 63.6595(c); 40 CFR 63.6602; 40 CFR 63.6605(a); 40 CFR 63.6605(b); 40 CFR 63.6612; 40 CFR 63.6625(e); 40 CFR 63.6625(e)(2); 40 CFR 63.6625(f); 40 CFR 63.6625(h); 40 CFR 63.6625(i); 40 CFR 63.6640(a); 40 CFR 63.6640(b); 40 CFR 63.6640(e); 40 CFR 63.6640(f); 40 CFR 63.6640(f)(1);</p>
		<p>40 CFR 63.6640(f)(2)(i); 40 CFR 63.6640(f)(3); 40 CFR 63.6645; 40 CFR 63.6645(a)(1); 40 CFR 63.6650(f); 40 CFR 63.6655(d); 40 CFR 63.6655(e)(2); 40 CFR 63.6655(f); 40 CFR 63.6655(f)(1); 40 CFR 63.6660(a); 40 CFR 63.6660(b); 40 CFR 63.6660(c); 40 CFR 63.6665; 40 CFR 63.6675; 40 CFR pt. 63, subp. ZZZZ, Table 2c, item 1; 40 CFR pt. 63, subp. ZZZZ, Table 6, item 9; and 40 CFR pt. 63, subp. ZZZZ, Table 8.</p> <p>A copy of 40 CFR pt. 63, subp. ZZZZ is included in Appendix G.</p> <p>If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. ZZZZ, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.8150]</p>
EQUI 374	1	EQUI 374 is currently not operational. The Permittee may not restart operation of EQUI 374 unless the appropriate amendment is submitted to incorporate applicable requirements for the Therminol. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 375	3520	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	3535	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. [Minn. R. 7011.2300, subp. 2(B)]

SI Id	Sequence	Requirement
	3540	Fuel type: No. 2 fuel oil/diesel fuel meeting the requirements of 40 CFR Section 80.510(c) only by design. [Minn. R. 7005.0100, subp. 35a]
	3550	Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency generator by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, that allows calculation of potential emissions based on 500 operating hours per year. [Minn. R. 7007.0800, subps. 4-5]
	3560	The Permittee shall keep records of fuel type and usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
	3565	Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of diesel fuel oil, certifying that the sulfur content does not exceed 0.0015 percent by weight. [Minn. R. 7007.0800, subps. 4-5]
	19505	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows:</p> <ul style="list-style-type: none"> 40 CFR 63.1(a); 40 CFR 63.1(b)(1); 40 CFR 63.1(b)(3); 40 CFR 63.1(c)(1)-(2); 40 CFR 63.1(c)(5)-(6); 40 CFR 63.1(e); 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4(a)-(c); 40 CFR 63.5(a)-(b); 40 CFR 63.5(d)-(f); 40 CFR 63.6(a)(1)-(2); 40 CFR 63.6(b)(1)-(4); 40 CFR 63.6(b)(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1)-(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g)(1)-(3); 40 CFR 63.6(i)(1)-(6); 40 CFR 63.6(i)(8)-(9); 40 CFR 63.6(i)(11);

SI Id	Sequence	Requirement
		<p>40 CFR 63.6(j); 40 CFR 63.7(a)(2); 40 CFR 63.7(a)(2)(ix); 40 CFR 63.7(a)(3); 40 CFR 63.7(b)(1)-(2); except that 63.7(b)(1) and (2) only apply as specified in 63.6645. 40 CFR 63.7(c)-(d); except that 63.7(c) only applies as specified in 63.6645. 40 CFR 63.7(e)(2)-(4); 40 CFR 63.7(f)-(h); 40 CFR 63.8(b)(1)-(3); 40 CFR 63.8(c)(1); 40 CFR 63.8(c)(1)(ii); 40 CFR 63.8(c)(2)-(3); 40 CFR 63.8(c)(4); except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS). 40 CFR 63.8(c)(6)-(8); except that subpart ZZZZ does not require COMS. 40 CFR 63.8(d); 40 CFR 63.8(e)(1)-(4); 40 CFR 63.8(e)(5)(i); except that 63.8(e) only applies as specified in 63.6645. 40 CFR 63.8(f)(1)-(6); except that 63.8(f)(4) and 63.8(f)(6) only apply as specified in 63.6645. 40 CFR 63.8(g); except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at 63.6635 and 63.6640. 40 CFR 63.9(b)(1)-(2); 40 CFR 63.9(b)(4)-(5); except that 63.9(b) only applies as specified in 63.6645. 40 CFR 63.9(c)-(e); except that 63.9(c)-(e) only apply as specified in 63.6645.</p>
		<p>40 CFR 63.9(g)(1); except that 63.9(g) only applies as specified in 63.6645. 40 CFR 63.9(h)-(j); 40 CFR 63.9(k); only as specified in 63.9(j). 40 CFR 63.10(a)(5)-(7); 40 CFR 63.10(b)(1); except that the most recent 2 years of data do not have to be retained on site. 40 CFR 63.10(b)(2)(vi)-(xiv); 40 CFR 63.10(b)(3); 40 CFR 63.10(c); 40 CFR 63.10(d)(1)-(2); 40 CFR 63.10(d)(4); 40 CFR 63.10(e)(1)-(2)(i); 40 CFR 63.10(e)(3); 40 CFR 63.10(f); 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; and 40 CFR 63.15(a)-(b).</p> <p>A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. A, 40 CFR pt. 63, subp. ZZZZ(Table 8), Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.8150, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>

SI Id	Sequence	Requirement
	27830	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. ZZZZ as follows:</p> <p>40 CFR 63.6585(a); 40 CFR 63.6585(b); 40 CFR 63.6590(a); 40 CFR 63.6590(a)(1)(ii); 40 CFR 63.6595(a)(1); 40 CFR 63.6595(c); 40 CFR 63.6602; 40 CFR 63.6605(a); 40 CFR 63.6605(b); 40 CFR 63.6612; 40 CFR 63.6625(e); 40 CFR 63.6625(e)(2); 40 CFR 63.6625(f); 40 CFR 63.6625(h); 40 CFR 63.6625(i); 40 CFR 63.6640(a); 40 CFR 63.6640(b); 40 CFR 63.6640(e); 40 CFR 63.6640(f); 40 CFR 63.6640(f)(1); 40 CFR 63.6640(f)(2)(i); 40 CFR 63.6640(f)(3);</p>
		<p>40 CFR 63.6645; 40 CFR 63.6645(a)(1); 40 CFR 63.6650(f); 40 CFR 63.6655(d); 40 CFR 63.6655(e)(2); 40 CFR 63.6655(f); 40 CFR 63.6655(f)(1); 40 CFR 63.6660(a); 40 CFR 63.6660(b); 40 CFR 63.6660(c); 40 CFR 63.6665; 40 CFR 63.6675; 40 CFR pt. 63, subp. ZZZZ, Table 2c, item 1; 40 CFR pt. 63, subp. ZZZZ, Table 6, item 9; and 40 CFR pt. 63, subp. ZZZZ, Table 8.</p> <p>A copy of 40 CFR pt. 63, subp. ZZZZ is included in Appendix G.</p> <p>If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. ZZZZ, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.8150]</p>
EQUI 376	3520	Opacity <= 20 percent opacity once operating temperatures have been attained. [Minn. R. 7011.2300, subp. 1]
	3535	Sulfur Dioxide <= 0.0015 pounds per million Btu heat input. [Minn. R. 7011.2300, subp. 2(B)]
	3540	Fuel type: No. 2 fuel oil/diesel fuel meeting the requirements of 40 CFR Section 80.510(c) only by design. [Minn. R. 7005.0100, subp. 35a]

SI Id	Sequence	Requirement
	3550	Hours of Operation: The Permittee shall maintain documentation on site that the unit is an emergency generator by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, that allows calculation of potential emissions based on 500 operating hours per year. [Minn. R. 7007.0800, subps. 4-5]
	3560	The Permittee shall keep records of fuel type and usage on a monthly basis. [Minn. R. 7007.0800, subp. 5]
	3565	Fuel Supplier Certification: The Permittee shall obtain and maintain a fuel supplier certification for each shipment of diesel fuel oil, certifying that the sulfur content does not exceed 0.0015 percent by weight. [Minn. R. 7007.0800, subps. 4-5]
	19505	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. A as follows:</p> <ul style="list-style-type: none"> 40 CFR 63.1(a); 40 CFR 63.1(b)(1); 40 CFR 63.1(b)(3); 40 CFR 63.1(c)(1)-(2); 40 CFR 63.1(c)(5)-(6); 40 CFR 63.1(e); 40 CFR 63.2; 40 CFR 63.3; 40 CFR 63.4(a)-(c); 40 CFR 63.5(a)-(b); 40 CFR 63.5(d)-(f); 40 CFR 63.6(a)(1)-(2); 40 CFR 63.6(b)(1)-(4); 40 CFR 63.6(b)(5); 40 CFR 63.6(b)(7); 40 CFR 63.6(c)(1)-(2); 40 CFR 63.6(c)(5); 40 CFR 63.6(f)(2)-(3); 40 CFR 63.6(g)(1)-(3); 40 CFR 63.6(i)(1)-(6);

SI Id	Sequence	Requirement
		<p>40 CFR 63.6(i)(8)-(9); 40 CFR 63.6(i)(11); 40 CFR 63.6(j); 40 CFR 63.7(a)(2); 40 CFR 63.7(a)(2)(ix); 40 CFR 63.7(a)(3); 40 CFR 63.7(b)(1)-(2); except that 63.7(b)(1) and (2) only apply as specified in 63.6645. 40 CFR 63.7(c)-(d); except that 63.7(c) only applies as specified in 63.6645. 40 CFR 63.7(e)(2)-(4); 40 CFR 63.7(f)-(h); 40 CFR 63.8(b)(1)-(3); 40 CFR 63.8(c)(1); 40 CFR 63.8(c)(1)(ii); 40 CFR 63.8(c)(2)-(3); 40 CFR 63.8(c)(4); except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS). 40 CFR 63.8(c)(6)-(8); except that subpart ZZZZ does not require COMS. 40 CFR 63.8(d); 40 CFR 63.8(e)(1)-(4); 40 CFR 63.8(e)(5)(i); except that 63.8(e) only applies as specified in 63.6645. 40 CFR 63.8(f)(1)-(6); except that 63.8(f)(4) and 63.8(f)(6) only apply as specified in 63.6645. 40 CFR 63.8(g); except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at 63.6635 and 63.6640. 40 CFR 63.9(b)(1)-(2); 40 CFR 63.9(b)(4)-(5); except that 63.9(b) only applies as specified in 63.6645. 40 CFR 63.9(c)-(e); except that 63.9(c)-(e) only apply as specified in 63.6645.</p>
		<p>40 CFR 63.9(g)(1); except that 63.9(g) only applies as specified in 63.6645. 40 CFR 63.9(h)-(j); 40 CFR 63.9(k); only as specified in 63.9(j). 40 CFR 63.10(a)(5)-(7); 40 CFR 63.10(b)(1); except that the most recent 2 years of data do not have to be retained on site. 40 CFR 63.10(b)(2)(vi)-(xiv); 40 CFR 63.10(b)(3); 40 CFR 63.10(c); 40 CFR 63.10(d)(1)-(2); 40 CFR 63.10(d)(4); 40 CFR 63.10(e)(1)-(2)(i); 40 CFR 63.10(e)(3); 40 CFR 63.10(f); 40 CFR 63.12; 40 CFR 63.13; 40 CFR 63.14; and 40 CFR 63.15(a)-(b).</p> <p>A copy of 40 CFR pt. 63, subp. A is included in Appendix D. If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than three years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. A, 40 CFR pt. 63, subp. ZZZZ(Table 8), Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, subp. 1(B), Minn. R. 7011.8150, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]</p>

SI Id	Sequence	Requirement
	27830	<p>The Permittee must comply with all applicable requirements of 40 CFR pt. 63, subp. ZZZZ as follows:</p> <p>40 CFR 63.6585(a); 40 CFR 63.6585(b); 40 CFR 63.6590(a); 40 CFR 63.6590(a)(1)(ii); 40 CFR 63.6595(a)(1); 40 CFR 63.6595(c); 40 CFR 63.6602; 40 CFR 63.6605(a); 40 CFR 63.6605(b); 40 CFR 63.6612; 40 CFR 63.6625(e); 40 CFR 63.6625(e)(2); 40 CFR 63.6625(f); 40 CFR 63.6625(h); 40 CFR 63.6625(i); 40 CFR 63.6640(a); 40 CFR 63.6640(b); 40 CFR 63.6640(e); 40 CFR 63.6640(f); 40 CFR 63.6640(f)(1); 40 CFR 63.6640(f)(2)(i);</p>
		<p>40 CFR 63.6640(f)(3); 40 CFR 63.6645; 40 CFR 63.6645(a)(1); 40 CFR 63.6650(f); 40 CFR 63.6655(d); 40 CFR 63.6655(e)(2); 40 CFR 63.6655(f); 40 CFR 63.6655(f)(1); 40 CFR 63.6660(a); 40 CFR 63.6660(b); 40 CFR 63.6660(c); 40 CFR 63.6665; 40 CFR 63.6675; 40 CFR pt. 63, subp. ZZZZ, Table 2c, item 1; 40 CFR pt. 63, subp. ZZZZ, Table 6, item 9; and 40 CFR pt. 63, subp. ZZZZ, Table 8.</p> <p>A copy of 40 CFR pt. 63, subp. ZZZZ is included in Appendix G.</p> <p>If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 63, subp. ZZZZ, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.8150]</p>
EQUI 378	1	The Permittee shall vent emissions from EQUI 378 to control equipment meeting the requirements of TREA 13 whenever EQUI 378 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 379	1	The Permittee shall vent emissions from EQUI 379 to control equipment meeting the requirements of TREA 19 whenever EQUI 379 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 380	1	The Permittee shall vent emissions from EQUI 380 to control equipment meeting the requirements of TREA 19 whenever EQUI 380 operates. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
EQUI 381	1	The Permittee shall vent emissions from EQUI 381 to control equipment meeting the requirements of TREA 20 whenever EQUI 381 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 382	1	The Permittee shall vent emissions from EQUI 382 to control equipment meeting the requirements of TREA 18 whenever EQUI 382 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 383	1	The Permittee shall vent emissions from EQUI 383 to control equipment meeting the requirements of TREA 18 whenever EQUI 383 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 383 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]	
4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]	
4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]	

SI Id	Sequence	Requirement
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 384	1	The Permittee shall vent emissions from EQUI 384 to control equipment meeting the requirements of TREA 18 whenever EQUI 384 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4591	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 384 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4592	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005]
	4593	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4594	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4595	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4596	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]

SI Id	Sequence	Requirement
EQUI 385	1	The Permittee shall vent emissions from EQUI 385 to control equipment meeting the requirements of TREA 13 whenever EQUI 385 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 386	1	The Permittee shall vent emissions from EQUI 386 to control equipment meeting the requirements of TREA 21 whenever EQUI 386 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 387	1	The Permittee shall vent emissions from EQUI 387 to control equipment meeting the requirements of TREA 29 whenever EQUI 387 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
EQUI 387	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 387 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
EQUI 387	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
EQUI 387	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
EQUI 387	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]

SI Id	Sequence	Requirement
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 388	1	The Permittee shall vent emissions from EQUI 388 to control equipment meeting the requirements of TREA 19 whenever EQUI 388 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 389	1	The Permittee shall vent emissions from EQUI 389 to control equipment meeting the requirements of TREA 19 whenever EQUI 389 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 390	1	The Permittee shall vent emissions from EQUI 390 to control equipment meeting the requirements of TREA 21 whenever EQUI 390 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 391	1	The Permittee shall vent emissions from EQUI 391 to control equipment meeting the requirements of TREA 13 whenever EQUI 391 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 392	1	The Permittee shall vent emissions from EQUI 392 to control equipment meeting the requirements of TREA 13 whenever EQUI 392 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 393	1	The Permittee shall vent emissions from EQUI 393 to control equipment meeting the requirements of TREA 14 whenever EQUI 393 operates. [Minn. R. 7007.0800, subp. 2(A)]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 393 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter <= 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity <= 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]	

SI Id	Sequence	Requirement
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity <= 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity <= 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 396	1	The Permittee shall vent emissions from EQUI 396 to control equipment meeting the requirements of TREA 21 whenever EQUI 396 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 397	1	The Permittee shall vent emissions from EQUI 397 to control equipment meeting the requirements of TREA 21 whenever EQUI 397 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 398	1	The Permittee shall vent emissions from EQUI 398 to control equipment meeting the requirements of TREA 11 whenever EQUI 398 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 399	1	The Permittee shall vent emissions from EQUI 399 to control equipment meeting the requirements of TREA 21 whenever EQUI 399 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 400	1	The Permittee shall vent emissions from EQUI 400 to control equipment meeting the requirements of TREA 14 whenever EQUI 400 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 401	1	The Permittee shall vent emissions from EQUI 401 to control equipment meeting the requirements of TREA 14 whenever EQUI 401 operates. [Minn. R. 7007.0800, subp. 2(A)]
	4590	The Permittee shall submit notification of the date construction of replacement began: Due 60 calendar days before Date of Construction or Replacement (or as soon as practicable). Submit the information specified in 40 CFR 60.15(d)(1) through (7). The notification shall be submitted electronically on Form CS-02. [40 CFR 60.15(d), Minn. R. 7011.0050]
	4600	The Permittee must comply with all applicable requirements of 40 CFR pt. 60, subp. A as follows: 40 CFR 60.1(a)-(c); 40 CFR 60.2; 40 CFR 60.3; 40 CFR 60.4; 40 CFR 60.5; 40 CFR 60.6; 40 CFR 60.7(a)(1), (a)(3), (a)(4), (a)(6), (b), (f), (g), and (h); 40 CFR 60.8; 40 CFR 60.9; 40 CFR 60.11(a)-(d), (e)(1)-(3), (f), and (g); 40 CFR 60.12; 40 CFR 60.14(a)-(c), (e), (f), and (g); 40 CFR 60.15; 40 CFR 60.17; and 40 CFR 60.19(f)(4). A copy of 40 CFR pt. 60, subp. A is included in Appendix H. EQUI 401 is subject to NSPS DD only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). If the standard changes or upon adoption of a new or amended federal applicable requirement, and if there are more than 3 years remaining in the permit term, the Permittee shall file an application for an amendment within nine months of promulgation of the applicable requirement, pursuant to Minn. R. 7007.0400, subp. 3. [40 CFR pt. 60, subp. A, Minn. R. 7007.0400, subp. 3, Minn. R. 7007.1150-7007.1500, Minn. R. 7011.0050, Minn. R. 7017.1010 & 7017.2025, Minn. R. 7019.0100]

SI Id	Sequence	Requirement
	4930	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Particulate Matter \leq 0.01 grains per dry standard cubic foot from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(1) & Minn. R. 7011.1005, subp. 2]
	4940	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). The Permittee shall limit Opacity \leq 0 percent opacity from process emissions. Process emissions are defined as the particulate matter which is collected by a capture system. [40 CFR 60.301, 40 CFR 60.302(b)(2) & Minn. R. 7011.1005, subp. 2]
	4970	This requirement applies only when processing grain as defined by 40 CFR 60.301(a) (i.e. soybeans). Opacity \leq 0 percent opacity from grain handling operation fugitive emissions. Fugitive emissions are defined in 40 CFR Part 60, subp. DD as particulate matter which is not collected by a capture system and is released directly into the atmosphere. [40 CFR 60.301(h), 40 CFR 60.302(c)(2) & Minn. R. 7011.1005, subp. 2]
	4980	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 5 percent opacity for fugitive (uncaptured) emissions from grain handling. [Minn. R. 7011.1005, subp. 3(A)]
	4981	This requirement applies only when processing oilseeds that are not included in the definition of grain in 40 CFR 60.301(a) (i.e. flaxseed, rapeseed, or corn germ). The Permittee shall limit Opacity \leq 10 percent opacity from the control equipment stack. [Minn. R. 7011.1005, subp. 3(D)]
EQUI 402	1	The Permittee shall vent emissions from EQUI 402 to control equipment meeting the requirements of TREA 18 whenever EQUI 402 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 403	1	The Permittee shall vent emissions from EQUI 403 to control equipment meeting the requirements of TREA 18 whenever EQUI 403 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 404	1	The Permittee shall vent emissions from EQUI 404 to control equipment meeting the requirements of TREA 18 whenever EQUI 404 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 405	1	The Permittee shall vent emissions from EQUI 405 to control equipment meeting the requirements of TREA 18 whenever EQUI 405 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 406	1	The Permittee shall vent emissions from EQUI 406 to control equipment meeting the requirements of TREA 18 whenever EQUI 406 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 407	1	The Permittee shall vent emissions from EQUI 407 to control equipment meeting the requirements of TREA 18 whenever EQUI 407 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 408	1	The Permittee shall vent emissions from EQUI 408 to control equipment meeting the requirements of TREA 18 whenever EQUI 408 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 409	1	The Permittee shall vent emissions from EQUI 409 to control equipment meeting the requirements of TREA 21 whenever EQUI 409 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 410	1	The Permittee shall vent emissions from EQUI 410 to control equipment meeting the requirements of TREA 29 whenever EQUI 410 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 411	1	The Permittee shall vent emissions from EQUI 411 to control equipment meeting the requirements of TREA 14 whenever EQUI 411 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 412	1	The Permittee shall vent emissions from EQUI 412 to control equipment meeting the requirements of TREA 14 whenever EQUI 412 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 413	1	Opacity \leq 5 percent opacity for fugitive (uncaptured) emissions from any bin vent while transferring grain into or out of the bin. [Minn. R. 7011.1005, subp. 3(A)]
	2	Visible Emissions: At least once each day of operation during daylight hours, the Permittee shall check for visible emissions from any bin vent while grain is being added to the bin. If no grain is added to the bin during the operating day, then the Permittee shall record that no grain was added. [Minn. R. 7007.0800, subps. 1-2]

SI Id	Sequence	Requirement
	3	Visible Emissions: Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed. The presence of visible emissions at any bin vent is considered a deviation and must be reported in the semiannual deviations report and annual deviations report required by this permit. [Minn. R. 7007.0800, subps. 4-5]
	4	Visible Emissions: Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed. Corrective actions include, but are not limited to, reducing the rate of grain being added to the bin and postponing operations until no visible emissions are observed. The Permittee shall keep a record of the type and date of any corrective action taken, and whether or not the corrective actions eliminated the visible emissions. [Minn. R. 7007.0800, subps. 4-5]
EQUI 414	1	Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from any bin vent while transferring grain into or out of the bin. [Minn. R. 7011.1005, subp. 3(A)]
	2	Visible Emissions: At least once each day of operation during daylight hours, the Permittee shall check for visible emissions from any bin vent while grain is being added to the bin. If no grain is added to the bin during the operating day, then the Permittee shall record that no grain was added. [Minn. R. 7007.0800, subps. 1-2]
	3	Visible Emissions: Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed. The presence of visible emissions at any bin vent is considered a deviation and must be reported in the semiannual deviations report and annual deviations report required by this permit. [Minn. R. 7007.0800, subps. 4-5]
	4	Visible Emissions: Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed. Corrective actions include, but are not limited to, reducing the rate of grain being added to the bin and postponing operations until no visible emissions are observed. The Permittee shall keep a record of the type and date of any corrective action taken, and whether or not the corrective actions eliminated the visible emissions. [Minn. R. 7007.0800, subps. 4-5]
EQUI 415	1	Opacity <= 5 percent opacity for fugitive (uncaptured) emissions from any bin vent while transferring grain into or out of the bin. [Minn. R. 7011.1005, subp. 3(A)]
	2	Visible Emissions: At least once each day of operation during daylight hours, the Permittee shall check for visible emissions from any bin vent while grain is being added to the bin. If no grain is added to the bin during the operating day, then the Permittee shall record that no grain was added. [Minn. R. 7007.0800, subps. 1-2]
	3	Visible Emissions: Recordkeeping of Visible Emissions. The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed. The presence of visible emissions at any bin vent is considered a deviation and must be reported in the semiannual deviations report and annual deviations report required by this permit. [Minn. R. 7007.0800, subps. 4-5]
	4	Visible Emissions: Corrective Actions: The Permittee shall take corrective action as soon as possible if visible emissions are observed. Corrective actions include, but are not limited to, reducing the rate of grain being added to the bin and postponing operations until no visible emissions are observed. The Permittee shall keep a record of the type and date of any corrective action taken, and whether or not the corrective actions eliminated the visible emissions. [Minn. R. 7007.0800, subps. 4-5]
EQUI 416	1	The Permittee shall vent emissions from EQUI 416 to control equipment meeting the requirements of TREA 19 whenever EQUI 416 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 417	1	The Permittee shall vent emissions from EQUI 417 to control equipment meeting the requirements of TREA 31 whenever EQUI 417 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 418	1	The Permittee shall vent emissions from EQUI 418 to control equipment meeting the requirements of TREA 32 whenever EQUI 418 operates. [Minn. R. 7007.0800, subp. 2(A)]
EQUI 419	1	The Permittee shall vent emissions from EQUI 419 to control equipment meeting the requirements of TREA 18 whenever EQUI 419 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 420	1	The Permittee shall vent emissions from EQUI 420 to control equipment meeting the requirements of TREA 13 whenever EQUI 420 operates. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
EQUI 421	1	The Permittee shall vent emissions from EQUI 421 to control equipment meeting the requirements of TREA 14 whenever EQUI 421 operates. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
TREA 11	17610	The Permittee shall vent emissions from EQUI 47, 82, 247, 337, and 398 to TREA 11 whenever EQUI 47, 82, 247, 337, or 398 operates, and operate and maintain TREA 11 at all times that any emissions are vented to TREA 11. The Permittee shall document periods of non-operation of the control equipment TREA 11 whenever EQUI 47, 82, 247, 337, or 398 is operating. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	17615	If the Permittee replaces TREA 11, the replacement control must meet or exceed the control efficiency requirements of TREA 11 as well as comply with all other requirements of TREA 11. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	17616	No control efficiency may be applied to the emission units associated with TREA 11 that rely on hood capture (EQUI 81 and 121) unless the facility modifies the hood and conducts and submits a hood certification and evaluation according to the requirements of Minn. R. 7011.0072, subps. 2-4 and submits the appropriate amendment to incorporate the change. Until such time only emission units that vent to TREA 11 with 100 percent capture can be considered controlled by TREA 11. [Minn. R. 7007.0800, subp. 2(A)]
	18480	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter \geq 99 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	18490	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron \geq 93 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	18500	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron \geq 93 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
	18501	The Permittee shall operate and maintain the control equipment such that it achieves a collection efficiency for Particulate Matter \geq 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	18502	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	18510	The Permittee shall operate and maintain the fabric filter 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. [Minn. R. 7007.0800, subp. 14]
	18520	Visible Emissions: The Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
	18540	Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in this permit. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
	18550	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: <ul style="list-style-type: none"> - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]

SI Id	Sequence	Requirement
	18560	Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation. [Minn. R. 7007.0800, subp. 4]
	18565	The Permittee shall calibrate or replace the pressure drop monitor at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	18570	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. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	19640	Pressure Drop ≥ 0.5 and ≤ 8.0 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]
TREA 13	16440	The Permittee shall vent emissions from EQUI 11, 13, 14, 15, 17, 54, 68, 115, 116, 117, 118, 333, 378, 385, 391, 392, and 420 to TREA 13 whenever EQUI 11, 13, 14, 15, 17, 54, 68, 115, 116, 117, 118, 333, 378, 385, 391, 392, or 420 operates, and operate and maintain TREA 13 at all times that any emissions are vented to TREA 13. The Permittee shall document periods of non-operation of the control equipment TREA 13 whenever EQUI 11, 13, 14, 15, 17, 54, 68, 115, 116, 117, 118,333, 378, 385, 391, 392, or 420 is operating. [Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	16445	If the Permittee replaces TREA 13, the replacement control must meet or exceed the control efficiency requirements of TREA 13 as well as comply with all other requirements of TREA 13. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	16480	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter ≥ 80 percent control efficiency. [Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	16490	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron ≥ 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16500	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron ≥ 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16505	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for Particulate Matter ≥ 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	16506	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	16510	The Permittee shall operate and maintain the cyclone 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. [Minn. R. 7007.0800, subp. 14]
	16511	Daily Inspections: The Permittee shall inspect the cyclone stack for any visible emissions once every 24 hours during daylight hours. [40 CFR 64.3, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16512	Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed. [40 CFR 64.3, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]

SI Id	Sequence	Requirement
	16560	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. [40 CFR 64.3, Minn. R. 7017.0200]
	16570	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the cyclone or any of its components are found during the inspections to need repair. Corrective actions shall eliminate visible emissions, 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 cyclone. The Permittee shall keep a record of the type and date of any corrective action taken for each control device. [40 CFR 64.7(d), Minn. R. 7017.0200]
	35750	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing monitoring method, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	35760	As required by 40 CFR 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	35770	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
TREA 14	16440	The Permittee shall vent emissions from EQUI 9, 24, 46, 49, 58, 71, 85, 86, 87, 246, 248, 249, 250, 329, 370, 393, 400, 401, 411, 412, and 421 to TREA 14 whenever EQUI 9, 46, 49, 58, 71, 85, 86, 87, 246, 248, 249, 250, 329, 370, 393, 400, 401, 411, 412, or 421 operates, and operate and maintain TREA 14 at all times that any emissions are vented to TREA 14. The Permittee shall document periods of non-operation of the control equipment TREA 14 whenever EQUI 9, 24, 46, 49, 58, 71, 85, 86, 87, 246, 248, 249, 250, 329, 370, 393, 400, 401, 411, 412, or 421 is operating. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	16445	If the Permittee replaces TREA 14, the replacement control must meet or exceed the control efficiency requirements of TREA 14 as well as comply with all other requirements of TREA 14. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	16450	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	16460	As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]

SI Id	Sequence	Requirement
	16470	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
	17110	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter \geq 99 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	17120	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron \geq 93 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	17130	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron \geq 93 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	17135	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for Particulate Matter \geq 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	17136	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	17140	The Permittee shall operate and maintain the fabric filter 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. [Minn. R. 7007.0800, subp. 14]
	17150	Daily Inspections: The Permittee shall do the following, once every 24 hours: 1). Inspect the fabric filter stack for any visible emissions during daylight hours, except during inclement weather. 2). Read and record the pressure drop across the fabric filter. [40 CFR 64.3, Minn. R. 7017.0200, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	17160	Recordkeeping of Visible Emissions and Pressure Drop: The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. [40 CFR 64.9(b), Minn. R. 7017.0200, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	17170	Pressure Drop: Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation. [40 CFR 64.7(b), Minn. R. 7017.0200]
	17180	The Permittee shall calibrate the pressure gauge at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [40 CFR 64.3, Minn. R. 7017.0200]
	17190	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. [40 CFR 64.3, Minn. R. 7017.0200]
	17200	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> - visible emissions are observed; or - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. <p>Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter. [40 CFR 64.7(d), Minn. R. 7017.0200]</p>

SI Id	Sequence	Requirement
	17270	Pressure Drop ≥ 0.5 and ≤ 8.0 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
TREA 15	3080	The Permittee shall submit a notification of equipment removal/dismantlement: Due 15 calendar days after Equipment Removal and/or Dismantlement Date. This notification shall specify which Subject Items (by ID#) were removed and on what date. [Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	17610	The Permittee must vent emissions from EQUI 252 to TREA 15 whenever EQUI 252 operates, and operate and maintain TREA 15 at all times that any emissions are vented to TREA 15. The Permittee is authorized to remove TREA 15. Once TREA 15 is removed, the Permittee must vent emissions from EQUI 252 to TREA 25. The Permittee must document periods of non-operation of the control equipment TREA 15 (or TREA 25) whenever EQUI 252 is operating. [Minn. R. 7007.0800, subp. 2(A)]
	17615	If the Permittee replaces TREA 15, the replacement control must meet or exceed the control efficiency requirements of TREA 15 as well as comply with all other requirements of TREA 15. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]
	18480	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter ≥ 99 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18490	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron ≥ 93 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18500	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron ≥ 93 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18501	The Permittee shall operate and maintain the control equipment such that it achieves a collection efficiency for Particulate Matter ≥ 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	18502	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	18510	The Permittee shall operate and maintain the fabric filter 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. [Minn. R. 7007.0800, subp. 14]
	18520	Visible Emissions: The Permittee shall check the fabric filter stack or any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
	18540	Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
	18550	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 is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]

SI Id	Sequence	Requirement
	18560	Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation. [Minn. R. 7007.0800, subp. 4]
	18565	The Permittee shall calibrate or replace the pressure drop monitor at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	18570	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. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	19640	<p>Pressure Drop ≥ 0.5 and ≤ 8.0 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change.</p> <p>If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. [Minn. R. 7007.0800, subp. 2(A)]</p>
TREA 16	3080	The Permittee shall submit a notification of equipment removal/dismantlement: Due 15 calendar days after Equipment Removal and/or Dismantlement Date. This notification shall specify which Subject Items (by ID#) were removed and on what date. [Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	17610	The Permittee must vent emissions from EQUI 253 to TREA 16 whenever EQUI 253 operates, and operate and maintain TREA 16 at all times that any emissions are vented to TREA 16. The Permittee is authorized to remove TREA 16. Once TREA 16 is removed, the Permittee must vent emissions from EQUI 253 to TREA 25. The Permittee must document periods of non-operation of the control equipment TREA 16 (or TREA 25) whenever EQUI 253 is operating. [Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	17615	<p>If the Permittee replaces TREA 16, the replacement control must meet or exceed the control efficiency requirements of TREA 16 as well as comply with all other requirements of TREA 16. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.</p> <p>If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]</p>
	18480	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter ≥ 99 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18490	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron ≥ 93 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18500	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron ≥ 93 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18501	The Permittee shall operate and maintain the control equipment such that it achieves a collection efficiency for Particulate Matter ≥ 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	18502	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	18510	The Permittee shall operate and maintain the fabric filter 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. [Minn. R. 7007.0800, subp. 14]
	18520	Visible Emissions: The Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	18540	Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
	18550	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. <p>Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]</p>
	18560	Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation. [Minn. R. 7007.0800, subp. 4]
	18565	The Permittee shall calibrate or replace the pressure drop monitor at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	18570	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. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	19640	<p>Pressure Drop ≥ 0.5 and ≤ 8.0 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change.</p> <p>If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. [Minn. R. 7007.0800, subp. 2(A)]</p>
TREA 18	16440	The Permittee shall vent emissions from EQUI 50, 53, 64, 67, 97-110, 112, 330-332, 365, 382, 383, 384, 402-408, and 419 to TREA 18 whenever EQUI 50, 53, 64, 67, 97-110, 112, 330-332, 365, 382, 383, 384, 402-408, or 419 operates, and operate and maintain TREA 18 at all times that any emissions are vented to TREA 18. The Permittee shall document periods of non-operation of the control equipment TREA 18 whenever EQUI 50, 53, 64, 67, 97-110, 112, 330-332, 365, 382, 383, 384, 402-408, or 419 is operating. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	16445	<p>If the Permittee replaces TREA 18, the replacement control must meet or exceed the control efficiency requirements of TREA 18 as well as comply with all other requirements of TREA 18. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.</p> <p>If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]</p>
	16450	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing monitoring method, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]

SI Id	Sequence	Requirement
	16460	As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	16470	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
	16480	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter \geq 80 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	16490	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron \geq 80 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	16500	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron \geq 80 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	16501	The Permittee shall operate and maintain the control equipment such that it achieves a collection efficiency for Particulate Matter \geq 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	16502	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	16510	The Permittee shall operate and maintain the cyclone 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. [Minn. R. 7007.0800, subp. 14]
	16511	Daily Inspections: The Permittee shall inspect the cyclone stack for any visible emissions once every 24 hours during daylight hours. [40 CFR 64.3, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16512	Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed. [40 CFR 64.9(B), Minn. R. 7007.0800, subp. 2(a), Minn. R. 7017.0200]
	16560	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. [40 CFR 64.3, Minn. R. 7017.0200]
	16570	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the cyclone or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range 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 cyclone. The Permittee shall keep a record of the type and date of any corrective action taken for each control device. [40 CFR 64.7(d)]
TREA 19	16440	The Permittee shall vent emissions from EQUI 379, 380, 388, 389, and 416 to TREA 19 whenever EQUI 379, 380, 388, 389, or 416 operates, and operate and maintain TREA 19 at all times that any emissions are vented to TREA 19. The Permittee shall document periods of non-operation of the control equipment TREA 19 whenever EQUI 379, 380, 388, or 416 is operating. [Minn. R. 7007.0800, subp. 2(A)]
	16445	If the Permittee replaces TREA 19, the replacement control must meet or exceed the control efficiency requirements of TREA 19 as well as comply with all other requirements of TREA 19. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
	16450	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing monitoring method, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	16460	As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	16470	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
	16480	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16490	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(a)]
	16500	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16501	The Permittee shall operate and maintain the control equipment such that it achieves a collection efficiency for Particulate Matter \geq 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	16502	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	16510	The Permittee shall operate and maintain the cyclone 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. [Minn. R. 7007.0800, subp. 14]
	16511	Daily Inspections: The Permittee shall inspect the cyclone stack for any visible emissions once every 24 hours during daylight hours. [40 CFR 64.3, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16512	Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed. [40 CFR 64.9(b), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16560	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. [40 CFR 64.3, Minn. R. 7017.0200]
	16570	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the cyclone or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range 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 cyclone. The Permittee shall keep a record of the type and date of any corrective action taken for each control device. [40 CFR 64.7(d)]
TREA 20	16440	The Permittee shall vent emissions from EQUI 18, 19, 20, 21, 27, 39, 55, 57, 59, 70, 334, 335, 336, 338, 343, 344, and 381 to TREA 20 whenever EQUI 18, 19, 20, 21, 27, 39, 55, 57, 59, 70, 334, 335, 336, 338, 343, 344, or 381 operates, and operate and maintain TREA 20 at all times that any emissions are vented to TREA 20. The Permittee shall document periods of non-operation of the control equipment TREA 20 whenever EQUI 18, 19, 20, 21, 27, 39, 55, 57, 59, 70, 334, 335, 336, 338, 343, 344, or 381 is operating. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
	16445	<p>If the Permittee replaces TREA 20, the replacement control must meet or exceed the control efficiency requirements of TREA 20 as well as comply with all other requirements of TREA 20. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.</p> <p>If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]</p>
	16450	<p>Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]</p>
	16460	<p>As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]</p>
	16470	<p>The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]</p>
	16501	<p>The Permittee shall operate and maintain the control equipment such that it achieves a collection efficiency for Particulate Matter \geq 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]</p>
	16502	<p>The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]</p>
	17110	<p>The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter \geq 99 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]</p>
	17120	<p>The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron \geq 93 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]</p>
	17130	<p>The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron \geq 93 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]</p>
	17140	<p>The Permittee shall operate and maintain the fabric filter 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. [Minn. R. 7007.0800, subp. 14]</p>
	17150	<p>Daily Inspections: The Permittee shall do the following, once every 24 hours: 1). Inspect the fabric filter stack for any visible emissions during daylight hours, except during inclement weather. 2). Read and record the pressure drop across the fabric filter. [40 CFR 64.3, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]</p>
	17160	<p>Recordkeeping of Visible Emissions and Pressure Drop: The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. [40 CFR 64.9(b), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]</p>
	17170	<p>Pressure Drop: Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation. [40 CFR 64.7(b), Minn. R. 7017.0200]</p>
	17180	<p>The Permittee shall calibrate the pressure gauge at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [40 CFR 64.3, Minn. R. 7017.0200]</p>
	17190	<p>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. [40 CFR 64.3, Minn. R. 7017.0200]</p>

SI Id	Sequence	Requirement
	17200	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> - visible emissions are observed; or - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. <p>Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter. [40 CFR 64.7(d), Minn. R. 7017.0200]</p>
	17270	<p>Pressure Drop \geq 0.5 and \leq 8.0 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours. [Minn. R. 7007.0800, subp. 2(A)]</p>
TREA 21	16440	<p>The Permittee shall vent emissions from EQUI 31, 32, 33, 72, 386, 390, 396, 397, 399, and 409 to TREA 21 whenever EQUI 31, 32, 33, 72, 386, 390, 396, 397, 399, or 409 operates, and operate and maintain TREA 21 at all times that any emissions are vented to TREA 21. The Permittee shall document periods of non-operation of the control equipment TREA 21 whenever EQUI 31, 32, 33, 72, 386, 390, 396, 397, 399, or 409 is operating. [Minn. R. 7007.0800, subp. 2(A)]</p>
	16445	<p>If the Permittee replaces TREA 21, the replacement control must meet or exceed the control efficiency requirements of TREA 21 as well as comply with all other requirements of TREA 21. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.</p> <p>If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]</p>
	16450	<p>Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing monitoring method, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]</p>
	16460	<p>As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]</p>
	16470	<p>The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]</p>
	16480	<p>The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]</p>
	16490	<p>The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]</p>
	16500	<p>The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]</p>
	16501	<p>The Permittee shall operate and maintain the control equipment such that it achieves a collection efficiency for Particulate Matter \geq 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]</p>

SI Id	Sequence	Requirement
	16502	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	16510	The Permittee shall operate and maintain the cyclone 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. [Minn. R. 7007.0800, subp. 14]
	16511	Daily Inspections: The Permittee shall inspect the cyclone stack or any visible emissions once every 24 hours during daylight hours. [40 CFR 64.3, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16512	Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed. [40 CFR 64.9(b), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16560	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. [40 CFR 64.3, Minn. R. 7017.0200]
	16570	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the cyclone or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range 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 cyclone. The Permittee shall keep a record of the type and date of any corrective action taken for each control device. [40 CFR 64.7(d)]
TREA 25	17610	The Permittee shall vent emissions from EQUI 30, 37, 38, 60, 63, 73, 75, 252, 253, 351, and 368 to TREA 25 whenever EQUI 30, 37, 38, 60, 63, 73, 75, 252, 253, 351, or 368 operate, and operate and maintain TREA 25 at all times that any emissions are vented to TREA 25. The Permittee shall document periods of non-operation of the control equipment TREA 25 whenever EQUI 30, 37, 38, 60, 63, 73, 75, 252, 253, 351, or 368 is operating. This requirement will take effect for EQUI 252 and 253 once the construction rerouting process flow of these units is complete. Until then, EQUI 252 and EQUI 253 will continue to vent to TREA 15 and TREA 16, respectively. [Minn. R. 7007.0800, subp. 2(A)]
	17611	EQUI 351 is not currently in operation and is not considered controlled by TREA 25 until the Permittee executes the hood certification and evaluation requirements outlined under EQUI 351 in section 6 of this permit. [Minn. R. 7007.0800, subp. 2]
	17615	If the Permittee replaces TREA 25, the replacement control must meet or exceed the control efficiency requirements of TREA 25 as well as comply with all other requirements of TREA 25. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]
	18480	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for Particulate Matter \geq 99 percent collection efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18490	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for PM $<$ 10 micron \geq 93 percent collection efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18500	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for PM $<$ 2.5 micron \geq 93 percent collection efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18501	This requirement applies only to emissions from EQUI 63 (Traveling enclosed Belt Conveyor to Rail Loadout) and EQUI 351 (S-N Tramco Drag to Barge Loading). The Permittee shall operate and maintain control equipment such that it achieves a capture efficiency for Particulate Matter \geq 80 percent capture efficiency. All other emission units controlled by TREA 25 have 100% capture efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18502	This requirement applies only to emissions from EQUI 63 (Traveling enclosed Belt Conveyor to Rail Loadout) and EQUI 351 (S-N Tramco Drag to Barge Loading). The Permittee shall operate and maintain control equipment such that it achieves a capture efficiency for PM $<$ 10 micron \geq 80 percent capture efficiency. All other emission units controlled by TREA 25 have 100% capture efficiency. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
	18503	This requirement applies only to emissions from EQUI 63 (Traveling enclosed Belt Conveyor to Rail Loadout) and EQUI 351 (S-N Tramco Drag to Barge Loading). The Permittee shall operate and maintain control equipment such that it achieves a capture efficiency for PM < 2.5 micron \geq 80 percent capture efficiency. All other emission units controlled by TREA 25 have 100% capture efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18504	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for Particulate Matter \geq 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	18506	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	18510	The Permittee shall operate and maintain the fabric filter 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. [Minn. R. 7007.0800, subp. 14]
	18520	Visible Emissions: The Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation. [Minn. R. 7007.0800, subps. 4-5]
	18530	Pressure Drop: Recordkeeping. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit. [Minn. R. 7007.0800, subps. 4-5, Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	18540	Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit. [Minn. R. 7007.0800, subps. 4-5]
	18550	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: <ul style="list-style-type: none"> - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]
	18560	Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation. [Minn. R. 7007.0800, subp. 4]
	18565	The Permittee shall calibrate or replace the pressure drop monitor at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	18570	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. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	18580	This requirement applies to EQUI 63. Hood Certification and Evaluation: The Permittee shall maintain the most current record of the hood evaluation and certification on site. The control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subp. 2(A) and must conform to the design and operating requirements listed in Minn. R. 7011.0072, subps. 2(B) and 3. The hood certification must address how cross-drafts are accommodated in the design (e.g., higher face velocity, oversized hood, etc.) and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
	18590	This requirement applies to EQUI 63. Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow parameter that was measured during the most recent hood certification to verify the hood design and operation parameters meet or exceed the parameters measured during the most recent hood evaluation conducted according to Minn. R. 7011.0072, subps. 2 & 3 as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluations on site for 5 years. [Minn. R. 7007.0800, subp. 2(A)]
	18591	This requirement is triggered once use of EQUI 351 resumes. This requirement applies to the hood for EQUI 351. Hood Certification and Evaluation: The Permittee shall maintain the most current record of the hood evaluation and certification on site. The control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subp. 2(A) and must conform to the design and operating requirements listed in Minn. R. 7011.0072, subps. 2(B) and 3. The hood certification must address how cross-drafts are accommodated in the design (e.g., higher face velocity, oversized hood, etc.) and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. [Minn. R. 7007.0800, subp. 2(A)]
	18592	This requirement is triggered once use of EQUI 351 resumes. This requirement applies to the hood for EQUI 351. Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow parameter that was measured during the most recent hood certification to verify the hood design and operation parameters meet or exceed the parameters measured during the most recent hood evaluation conducted according to Minn. R. 7011.0072, subps. 2 & 3 as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluations on site for 5 years. [Minn. R. 7007.0800, subp. 2(A)]
	19640	<p>Pressure Drop ≥ 5.0 and ≤ 8.0 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change.</p> <p>If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. [Minn. R. 7007.0800, subp. 2(A)]</p>
TREA 26	1	The Permittee shall vent emissions from EQUI 69, 77, 124, and 125 to TREA 26 whenever EQUI 69, 77, 124, or 125 operates, and operate and maintain TREA 26 at all times that any emissions are vented to TREA 26. The Permittee shall document periods of non-operation of the control equipment TREA 26 whenever 69, 77, 124, or 125 is operating. [Minn. R. 7007.0800, subp. 2(A)]
	2	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing temperature or flow rate ranges, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	3	As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	4	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
	10	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Volatile Organic Compounds ≥ 95 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
	11	The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Hexane \geq 95 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	12	Cold mineral oil entering the control equipment must be maintained at a Temperature \leq 120 degrees Fahrenheit 8-hour block average. [Minn. R. 7007.0800, subp. 2(A)]
	14	Mineral oil flow rate must be maintained at a Liquid Flow Rate \geq 20 gallons per minute 8-hour block average. [Minn. R. 7007.0800, subp. 2(A)]
	15	Cold Water Condenser outlet gas must be maintained at a Temperature \leq 105 degrees Fahrenheit 8-hour block average. [Minn. R. 7007.0800, subp. 2(A)]
	16	The Permittee shall operate and maintain the control device at all times that any emission unit controlled by the control device is in operation. The Permittee shall document periods of non-operation of the control equipment. [CAAA of 1990, Minn. R. 7007.0100, subp. 7(B), Minn. R. 7007.0800, subp. 2(A), Minn. Stat. 116.07, subd. 4a(a), Title I Condition: 40 CFR pt. 52]
	17	The Permittee shall operate and maintain the 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. [Minn. R. 7007.0800, subp. 14]
	18	The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records the cold oil mineral oil temperature entering the mineral oil scrubber and the cold water condenser outlet gas temperature. The Permittee shall maintain and operate a flow rate monitoring device that continuously indicates and records the mineral oil flow rate. The recording devices shall also calculate the three-hour rolling average pressure drop. An alarm shall be installed and programmed to sound indicating when the temperature of the cold oil mineral oil goes outside of the permitted temperature limit. [40 CFR 64.3(b)(4)(ii), Minn. R. 7007.0800, subps. 4-5, Minn. R. 7017.0200]
	19	The Permittee shall maintain a continuous hard copy readout or computer disk file of the cold mineral oil temperature, the condenser outlet gas temperature, and mineral oil flow rate readings. Readings outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. [40 CFR 64.9(b), Minn. R. 7017.0200]
	20	Temperature: Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording mineral oil and condenser gas outlet temperature as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored control equipment is in operation. [40 CFR 64.7(b), Minn. R. 7017.0200]
	21	Flow Rate: Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording the mineral oil flow rate as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored equipment is in operation. [40 CFR 64.7(b), Minn. R. 7017.0200]
	22	Monitoring: The Permittee shall physically check the temperature recording devices at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the daily verifications. [Minn. R. 7007.0800, subps. 4-5]
	23	Monitoring: The Permittee shall record the operating parameters once each operating day. The record shall include the time and date of the reading and whether or not it was within the range specified by this permit. [Minn. R. 7007.0800, subps. 4-5]
	25	Annual Calibration: The Permittee shall calibrate the temperature monitor and flow rate gauges at least once every 12 months and shall maintain a written record of the calibration and any action resulting from the calibration. [40 CFR 64.3, Minn. R. 7017.0200]
	26	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. [40 CFR 64.3, Minn. R. 7017.0200]
	30	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded mineral oil temperature, outlet gas temperature, or mineral oil flow rate is outside the required operating range; or - the control equipment or any of its components are found during the inspections to need repair. Corrective actions shall return the temperature or flow rate to within the permitted range 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 TREA 26. The Permittee shall keep a record of the type and date of any corrective action taken for each control device. [40 CFR 64.7(d), Minn. R. 7017.0200]

SI Id	Sequence	Requirement
TREA 29	3080	The Permittee shall submit a notification of equipment removal/dismantlement: Due 15 calendar days after Equipment Removal and/or Dismantlement Date. This notification shall specify which Subject Items (by ID#) were removed and on what date. [Title I Condition: Avoid major source under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	16440	The Permittee shall vent emissions from EQUI 34, 48, 61, 65, 80, 89, 90, 91, 339, 353, 354, 355, 356, 387, and 410 to TREA 29 whenever EQUI 34, 48, 61, 65, 80, 89, 90, 91, 339, 353, 354, 355, 356, 387, or 410 operates, and operate and maintain TREA 29 at all times that any emissions are vented to TREA 29. The Permittee shall document periods of non-operation of the control equipment TREA 29 whenever EQUI 34, 48, 61, 65, 80, 89, 90, 91, 339, 353, 354, 355, 356, 387, or 410 is operating. When TREA 29 is replaced, all above-mentioned equipment will be vented to the replacement control device, TREA 35. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	16445	If the Permittee replaces TREA 29, the replacement control must meet or exceed the control efficiency requirements of TREA 29 as well as comply with all other requirements of TREA 29. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	16450	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	17110	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter \geq 99 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	17120	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron \geq 93 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	17130	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron \geq 93 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	17132	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for Particulate Matter \geq 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	17133	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	17140	The Permittee shall operate and maintain the fabric filter 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. [Minn. R. 7007.0800, subp. 14]
	17150	Daily Inspections: The Permittee shall do the following, once every 24 hours: 1). Inspect the fabric filter stack for any visible emissions during daylight hours, except during inclement weather. 2). Read and record the pressure drop across the fabric filter. [40 CFR 64.3, Minn. R. 7017.0200, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	17160	Recordkeeping of Visible Emissions and Pressure Drop: The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. [40 CFR 64.9(b), Minn. R. 7017.0200, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	17170	Pressure Drop: Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation. [40 CFR 64.7(b), Minn. R. 7017.0200]

SI Id	Sequence	Requirement
	17180	The Permittee shall calibrate the pressure gauge at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [40 CFR 64.3, Minn. R. 7017.0200]
	17190	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. [40 CFR 64.3, Minn. R. 7017.0200]
	17200	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> - visible emissions are observed; or - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. <p>Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter. [40 CFR 64.7(d), Minn. R. 7017.0200]</p>
	17270	Pressure Drop ≥ 0.5 and ≤ 8.0 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) & Minn. R. 7007.3000]
	35760	As required by 40 CFR 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	35770	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
TREA 30	16440	The Permittee shall vent emissions from EQUI 369 to TREA 30 whenever EQUI 369 operates, and operate and maintain TREA 30 at all times that any emissions are vented to TREA 30. The Permittee shall document periods of non-operation of the control equipment TREA 30 whenever EQUI 369 is operating. [Minn. R. 7007.0800, subp. 2(A)]
	16445	<p>If the Permittee replaces TREA 30, the replacement control must meet or exceed the control efficiency requirements of TREA 30 as well as comply with all other requirements of TREA 30. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable.</p> <p>If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]</p>
	16480	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter ≥ 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16490	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron ≥ 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16500	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron ≥ 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16501	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for Particulate Matter ≥ 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	16502	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]

SI Id	Sequence	Requirement
	16503	Daily Inspections: The Permittee shall inspect the cyclone stack for any visible emissions once every 24 hours during daylight hours. [Minn. R. 7007.0800, subp. 2(A)]
	16504	Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. [Minn. R. 7007.0800, subp. 2(A)]
	16510	The Permittee shall operate and maintain the cyclone 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. [Minn. R. 7007.0800, subp. 14]
	16560	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. [Minn. R. 7007.0800, subp. 2(A)]
	16570	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the cyclone or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range 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 cyclone. The Permittee shall keep a record of the type and date of any corrective action taken for each control device. [Minn. R. 7007.0800, subp. 2(A)]
TREA 31	16440	The Permittee shall vent emissions from EQUI 417 to TREA 31 whenever EQUI 417 operates, and operate and maintain TREA 31 at all times that any emissions are vented to TREA 31. The Permittee shall document periods of non-operation of the control equipment TREA 31 whenever EQUI 417 is operating. [Minn. R. 7007.0800, subp. 2(A)]
	16445	If the Permittee replaces TREA 31, the replacement control must meet or exceed the control efficiency requirements of TREA 31 as well as comply with all other requirements of TREA 31. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]
	16450	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing monitoring method, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	16460	As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	16470	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
	16480	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16490	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16500	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
	16510	The Permittee shall operate and maintain the cyclone 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. [Minn. R. 7007.0800, subp. 14]
	16511	Daily Inspections: The Permittee shall inspect the cyclone stack for any visible emissions once every 24 hours during daylight hours. [40 CFR 64.3, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16512	Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed. [40 CFR 64.9(b), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16560	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. [40 CFR 64.3, Minn. R. 7017.0200]
	16570	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the cyclone or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range 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 cyclone. The Permittee shall keep a record of the type and date of any corrective action taken for each control device. [40 CFR 64.7(d)]
TREA 32	16440	The Permittee shall vent emissions from EQUI 418 to TREA 32 whenever EQUI 418 operates, and operate and maintain TREA 32 at all times that any emissions are vented to TREA 32. The Permittee shall document periods of non-operation of the control equipment TREA 32 whenever EQUI 418 is operating. [Minn. R. 7007.0800, subp. 2(A)]
	16445	If the Permittee replaces TREA 32, the replacement control must meet or exceed the control efficiency requirements of TREA 32 as well as comply with all other requirements of TREA 32. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]
	16450	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing monitoring method, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	16460	As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	16470	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
	16480	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16490	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	16500	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron \geq 80 percent control efficiency. [Minn. R. 7007.0800, subp. 2(A)]

SI Id	Sequence	Requirement
	16510	The Permittee shall operate and maintain the cyclone 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. [Minn. R. 7007.0800, subp. 14]
	16511	Daily Inspections: The Permittee shall inspect the cyclone stack for any visible emissions once every 24 hours during daylight hours. [40 CFR 64.3, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16512	Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection and whether or not any visible emissions were observed. [40 CFR 64.9(b), Minn. R. 7007.0800, subp. 2(A), Minn. R. 7017.0200]
	16560	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. [40 CFR 64.3, Minn. R. 7017.0200]
	16570	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the cyclone or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range 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 cyclone. The Permittee shall keep a record of the type and date of any corrective action taken for each control device. [40 CFR 64.7(d)]
TREA 33	17610	The Permittee shall vent emissions from EQUI 42, 43, 44, 62, and 345 to TREA 33 whenever EQUI 42, 43, 44, 62, or 345 operates, and operate and maintain TREA 33 at all times that any emissions are vented to TREA 33. The Permittee shall document periods of non-operation of the control equipment TREA 33 whenever EQUI 42, 43, 44, 62, or 345 is operating. [Minn. R. 7007.0800, subp. 2(A)]
	17615	If the Permittee replaces TREA 33, the replacement control must meet or exceed the control efficiency requirements of TREA 33 as well as comply with all other requirements of TREA 33. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]
	18480	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for Particulate Matter \geq 99 percent collection efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18490	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for PM $<$ 10 micron \geq 93 percent collection efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18500	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for PM $<$ 2.5 micron \geq 93 percent collection efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18501	The Permittee shall operate and maintain control equipment such that it achieves a capture efficiency for Particulate Matter \geq 80 percent capture efficiency. This requirement applies only to emissions from EQUI 62 (Truck Meal Loadout Conveyor). All other emission units controlled by TREA 33 have 100% capture efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18502	The Permittee shall operate and maintain control equipment such that it achieves a capture efficiency for PM $<$ 10 micron \geq 80 percent capture efficiency. This requirement applies only to emissions from EQUI 62 (Truck Meal Loadout Conveyor). All other emission units controlled by TREA 33 have 100% capture efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18503	The Permittee shall operate and maintain control equipment such that it achieves a capture efficiency for PM $<$ 2.5 micron \geq 80 percent capture efficiency. This requirement applies only to emissions from EQUI 62 (Truck Meal Loadout Conveyor). All other emission units controlled by TREA 33 have 100% capture efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	18504	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for Particulate Matter \geq 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	18506	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	18510	The Permittee shall operate and maintain the fabric filter 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. [Minn. R. 7007.0800, subp. 14]

SI Id	Sequence	Requirement
	18520	Visible Emissions: The Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
	18530	Pressure Drop: Recordkeeping. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
	18540	Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
	18550	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 is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]
	18560	Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation. [Minn. R. 7007.0800, subp. 4]
	18565	The Permittee shall calibrate or replace the pressure drop monitor at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	18570	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. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]
	18571	The Permittee shall submit a report within 45 calendar days of conducting the initial hood certification. The Permittee shall submit the results of the evaluation and certification on forms HE-01 and CR-02, along with any other information required by the forms or by this requirement. If multiple receiving pits or loadout spouts are used, then a hood evaluation must be conducted for each one. At a minimum the report shall contain the following information: 1) A copy of the original evaluation report conducted by qualified personnel; 2) A copy of the pages from any outdated edition of the Industrial Ventilation Manual, that informed the decisions made, with the relevant text highlighted; 3) An analysis and justification for how cross drafts are addressed in the design of the hood. The assumptions used need to be evaluated by qualified personnel in accordance with Minn. R. 7011.0072, subp.2; 4) An explanation for how different truck lengths are accommodated; 5) The name and credentials of the qualified personnel who conducted the hood evaluation; 6) A drawing of the actual Hood dimension and configuration, including length and width, and size and number of slots; and 7) A summary of the Actual Fan Rotation Speed and Fan Power Draw, or other parameters used in the Annual Hood Evaluation to verify that the parameters established in the evaluation test are being met or exceeded. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7011.0072, subps. 2-4]

SI Id	Sequence	Requirement
	18580	Hood Certification and Evaluation: The Permittee shall maintain the most current record of the hood evaluation and certification on site. The control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subp. 2(A) and must conform to the design and operating requirements listed in Minn. R. 7011.0072, subps. 2(B) and 3. The hood certification must address how cross-drafts are accommodated in the design (e.g., higher face velocity, oversized hood, etc.) and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. [Minn. R. 7007.0800, subp. 2(A)]
	18590	Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow parameter that was measured during the most recent hood certification to verify the hood design and operation parameters meet or exceed the parameters measured during the most recent hood evaluation conducted according to Minn. R. 7011.0072, subps. 2 & 3 as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluations on site for 5 years. [Minn. R. 7007.0800, subp. 2(A)]
	19640	<p>Pressure Drop ≥ 0.5 and ≤ 8.0 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change.</p> <p>If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. [Minn. R. 7007.0800, subp. 2(A)]</p>
TREA 35	3100	<p>The Permittee shall submit a notification of the date construction began: Due 30 calendar days after Date of Construction Start (or reconstruction). Submit the name and number of the Subject Item and the date construction began.</p> <p>The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]</p>
	3110	<p>The Permittee shall submit a notification of the actual date of initial startup: Due 15 calendar days after Initial Startup Date. Submit the name and number of the Subject Item and the date of startup. Startup is as defined in Minn. R. 7005.0100, subp. 42a.</p> <p>The notification shall be submitted electronically on Form CS-02. [Minn. R. 7007.0800, subp. 16(L)]</p>
	16440	This requirement will take effect after replacement of TREA 29 is complete. The Permittee shall vent emissions from EQUI 34, 48, 61, 90, 91, 339, 353, 354, 355, 356, 387, 65, 80, 89, or 410 to TREA 35 whenever EQUI 34, 48, 61, 90, 91, 339, 353, 354, 355, 356, 387, 65, 80, 89, or 410 operates, and operate and maintain TREA 35 at all times that any emissions are vented to TREA 35. The Permittee shall document periods of non-operation of the control equipment TREA 35 whenever EQUI 34, 48, 61, 90, 91, 339, 353, 354, 355, 356, 387, 65, 80, 89, or 410 is operating. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	16445	<p>If the Permittee replaces TREA 35, the replacement control must meet or exceed the control efficiency requirements of TREA 35 as well as comply with all other requirements of TREA 35. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. This requirement will take effect after reconstruction of TREA 29 is complete.</p> <p>If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]</p>
	17110	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for Particulate Matter ≥ 99 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	17120	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 10 micron ≥ 93 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	17130	The Permittee shall operate and maintain control equipment such that it achieves a control efficiency for PM < 2.5 micron \geq 93 percent control efficiency. [Title I Condition: Avoid major modification under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	17131	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for Particulate Matter \geq 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(E)]
	17132	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	17140	The Permittee shall operate and maintain the fabric filter 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. [Minn. R. 7007.0800, subp. 14]
	17150	Daily Inspections: The Permittee shall do the following, once every 24 hours: 1). Inspect the fabric filter stack for any visible emissions during daylight hours, except during inclement weather 2). Read and record the pressure drop across the fabric filter. [40 CFR 64.3, Minn. R. 7017.0200, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	17160	Recordkeeping of Visible Emissions and Pressure Drop: The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a. [40 CFR 64.9(b), Minn. R. 7017.0200, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(1)(i) and Minn. R. 7007.3000]
	17170	Pressure Drop: Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation. [40 CFR 64.7(b), Minn. R. 7017.0200]
	17180	The Permittee shall calibrate the pressure gauge at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [40 CFR 64.3, Minn. R. 7017.0200]
	17190	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. [40 CFR 64.3, Minn. R. 7017.0200]
	17200	Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter. [40 CFR 64.7(d), Minn. R. 7017.0200]
	17270	Pressure Drop \geq 0.5 and \leq 8.0 inches of water, unless a new range is set pursuant to Minn. R. 7017.0225, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change. If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. [40 CFR 64.3, Minn. R. 7017.0200, Title I Condition: Avoid major modification under 40 CFR 52.21(b)(2)(i) and Minn. R. 7007.3000]

SI Id	Sequence	Requirement
	35750	Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change. [40 CFR 64.7(e), Minn. R. 7017.0200]
	35760	As required by 40 CFR 64.9(a)(2), for the Semi-Annual Deviations Report required by this permit and/or the Notification of Deviations Endangering Human Health and the Environment required by this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64: 1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents. [40 CFR 64.9(a)(2), Minn. R. 7017.0200]
	35770	The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [40 CFR 64.9(b), Minn. R. 7017.0200]
TREA 36	1	The Permittee shall vent emissions from EQUI 120 to TREA 36 whenever EQUI 120 operates, and operate and maintain TREA 36 at all times that any emissions are vented to TREA 36. The Permittee shall document periods of non-operation of the control equipment TREA 36 whenever EQUI 120 is operating. [Minn. R. 7007.0800, subp. 2]
	2	If the Permittee replaces TREA 36, the replacement control must meet or exceed the control efficiency requirements of TREA 36 as well as comply with all other requirements of TREA 36. Prior to making such a change, the Permittee shall apply for and obtain the appropriate permit amendment, as applicable. If no amendment is needed for the replacement, the Permittee shall submit an electronic notice to the Agency using Form CR-05. The notice must be received by the Agency seven working days prior to the commencement/start of replacement. [Minn. R. 7007.0800, subp. 2(A)]
	3	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for Particulate Matter ≥ 99 percent collection efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	4	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for PM < 10 micron ≥ 93 percent collection efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	5	The Permittee shall operate and maintain control equipment such that it achieves a collection efficiency for PM < 2.5 micron ≥ 93 percent collection efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	6	The Permittee shall operate and maintain control equipment such that it achieves a capture efficiency for Particulate Matter ≥ 80 percent capture efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	7	The Permittee shall operate and maintain control equipment such that it achieves a capture efficiency for PM < 10 micron ≥ 80 percent capture efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	8	The Permittee shall operate and maintain control equipment such that it achieves a capture efficiency for PM < 2.5 micron ≥ 80 percent capture efficiency. [Minn. R. 7007.0800, subp. 2(A)]
	9	The Permittee shall operate and maintain the control equipment such that it achieves a collection efficiency for Particulate Matter ≥ 80 percent collection efficiency. [Minn. R. 7011.1005, subp. 3(W)]
	10	The Permittee shall maintain air pollution control equipment in proper operating condition and utilize the air pollution control systems as designed. [Minn. R. 7011.1005, subp. 3(B)]
	11	The Permittee shall operate and maintain the fabric filter 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. [Minn. R. 7007.0800, subp. 14]
	12	Visible Emissions: The Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]
	13	Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in this permit. [Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subps. 4-5]

SI Id	Sequence	Requirement
	14	<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. <p>Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 2(A), Minn. R. 7007.0800, subp. 5]</p>
	15	<p>Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation. [Minn. R. 7007.0800, subp. 4]</p>
	16	<p>The Permittee shall calibrate or replace the pressure drop monitor at least once every 12 months and shall maintain a written record of any action resulting from the calibration. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]</p>
	17	<p>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. [Minn. R. 7007.0800, subp. 14, Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5]</p>
	18	<p>Hood Certification and Evaluation: The Permittee shall maintain the most current record of the hood evaluation and certification on site. The control device hood must be evaluated by a testing company as specified in Minn. R. 7011.0072, subp. 2(A) and must conform to the design and operating requirements listed in Minn. R. 7011.0072, subps. 2(B) and 3. The hood certification must address how cross-drafts are accommodated in the design (e.g., higher face velocity, oversized hood, etc.) and the Permittee shall certify this as specified in Minn. R. 7011.0072, subps. 2 and 3. [Minn. R. 7007.0800, subp. 2(A)]</p>
	19	<p>Annual Hood Evaluation: The Permittee shall measure and record at least once every 12 months the fan rotation speed, fan power draw, or face velocity of each hood, or other comparable air flow parameter that was measured during the most recent hood certification to verify the hood design and operation parameters meet or exceed the parameters measured during the most recent hood evaluation conducted according to Minn. R. 7011.0072, subps. 2 & 3 as required by Minn. R. 7011.0072, subp. 4. The Permittee shall maintain a copy of the annual evaluations on site for 5 years. [Minn. R. 7007.0800, subp. 2(A)]</p>
	20	<p>Pressure Drop ≥ 0.5 and ≤ 8.0 inches of water, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change.</p> <p>If the recorded pressure drop is outside the required range, the emissions during that time shall be considered uncontrolled until the pressure drop is once again within the required range. The period of time for which the pressure drop is considered out of range shall be reported as a deviation. [Minn. R. 7007.0800, subp. 2(A)]</p>

Attachment 3 Points Calculator

1) AI ID No.:	1685	Total Points	40
2) Facility Name:	Archer Daniels Midland Co - Red Wing		
3) Small business? y/n?	n		
4) Air Project Tracking Numbers (including all)	7393, 7240, 7012		
5) Date of each Application Received:	7/13/2023, 12/11/2022, 11/5/2021		
6) Final Permit No.	04900001-104		
7) Permit Staff	Kara Leadbetter		

Application Type	Air Project Tracking No.	Tempo Activity ID	Qty.	Points	Total Points	Total Additionl Cost	Details
Administrative Amendment	7240	IND20220001	1	1	1	\$ 285.00	
Minor Amendment	7012	IND20210002	1	4	4	\$ 1,140.00	
Applicability Request				10	0	\$ -	
Moderate Amendment				15	0	\$ -	
Major Amendment				25	25	\$ 7,125.00	
	7393	IND20230001	1				
Individual State Permit (not reissuance)				50	0	\$ -	
Individual Part 70 Permit (not reissuance)				75	0	\$ -	
Additional Points							
Modeling Review				15	0	\$ -	
BACT Review				15	0	\$ -	
LAER Review				15	0	\$ -	
CAA section 110(a)(2)(D)(i)(I) Review (i.e., Transport Rule/CAIR/CSAPR)				10	0	\$ -	
Part 75 CEM analysis				10	0	\$ -	
NSPS Review	7012	IND20210002	1	10	10	\$ 2,850.00	NSPS DD
NESHAP Review				10	0	\$ -	
Case-by-case MACT Review				20	0	\$ -	
Netting				10	0	\$ -	
Limits to remain below threshold				10	0	\$ -	
Plantwide Applicability Limit (PAL)				20	0	\$ -	
AERA review				15	0	\$ -	
Variance request under 7000.7000				35	0	\$ -	
Confidentiality request under 7000.1300				2	0	\$ -	
EAW review				0	0	\$ -	
Part 4410.4300, subparts 18, Item A; and 29				15	0	\$ -	
Part 4410.4300, subparts 8, Items A & B; 10, Items A to C; 16, Items A & D; 17, Items A to C & E to G; and 18, Items B & C				35	0	\$ -	
Part 4410.4300, subparts 4; 5 Items A & B; 13; 15; 16, Items B & C; and 17 item D				70	0	\$ -	
				Add'l Points	10	\$ 2,850.00	

NOTES:

NSPS review for emission units subject to NSPS DD when processing soybeans.

TSD Attachment 4. SO2 corn germ emissions

From: [Penman, Jeffrey](#)
To: [Leadbetter, Kara M \(MPCA\)](#)
Cc: [Whited, Kevin](#); [Harrison, Emily](#)
Subject: ADM Red Wing SO2 emissions Response, due 12/1/23
Date: Friday, December 1, 2023 12:49:34 PM
Attachments: [image001.png](#)
[200312 Lubbock Pelletizing and Expeller Stack Test Results.pdf](#)

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Hi Kara,

Lubbock's full stack test report is attached. Lubbock's process rate was 20 TPH for the pellet cooler (Coil Mount Fan Discharge) and 22 TPH for the expeller (Expeller Fan Discharge) in the report.

To answer your questions:

1. The corn germ crushed this summer was to assist another ADM location that was temporarily shut down. We do not anticipate crushing in the foreseeable future; however, Red Wing could be asked to crush corn germ again should the need arise.
2. Unfortunately, this is the only corn germ SO2 stack testing data available within ADM, Kevin checked and could not find a facility processing corn germ that was also required to test for SO2. For Lubbock, our understanding was that the Texas Commission on Environmental Quality (TCEQ) requested a one-time performance test for SO2 during a permit application review.
3. The Lubbock facility is a processor of cottonseed oil and like Red Wing, Lubbock is able to also process other oilseeds including canola and corn germ. The overall process remains relatively the same, the oily seed or the germ part is conditioned (heated) then mechanically pressed through screw-type expellers to remove the initial oil contained in the seed, then further solvent extraction of the pressed cake removes the remaining oil. Red Wing did not use the pellet mill during the corn germ processing, but pellet mill emissions were included in all calculations to be conservative in accounting for the PTE of SO2. There were no SO2 emissions associated with the solvent extraction portion of the process, and this likely makes sense with the mineral oil vapor scrubbers used in both Red Wing and Lubbock.

ADM Red Wing seeks to have PTE representative of potential SO2 emissions caused by processing corn germ. Further, ADM sought to quantify an SO2 emission factor so that SO2 emissions could be determined for future Air Emission Inventories, as there is no available SO2 emission factor in AP-42 for corn germ processing. As SO2 is a billable pollutant, we must account for it.



Jeffrey Penman
EHS Manager
ADM Red Wing, MN
ADM Red Wing, MN
126 LaGrange Street
Red Wing, Minnesota 55066
t +651 267 3867 / m +715 307 2697
Jeffrey.penman@adm.com

From: Leadbetter, Kara M (MPCA)
Sent: Tuesday, November 28, 2023 9:42 AM
To: Penman, Jeffrey <Jeffrey.Penman@adm.com>
Cc: Whited, Kevin <Kevin.Whited@adm.com>
Subject: Questions about SO2 for ADM - Red Wing

Hi Jeff,

Can you give me some information about the SO2 emissions that are to be added to the facility PTE during this permit action? Specifically:

- How often in corn germ processed at ADM – Red Wing?
- Emission factor is based on stack test data from 2003, is there more recent stack test data available?
- Stack test data is from the ADM – Lubbock TX facility. How similar is the facility and process flow to ADM – Red Wing? Please justify why it makes sense to use the data from the facility for ADM – Red Wing.

Please respond to the above questions by Friday December 1, 2023.

Thank you!

Kara

Kara Leadbetter (she/her/hers) | Air Permit Engineer
Minnesota Pollution Control Agency (MPCA)
Industrial Division
520 Lafayette Road | St. Paul, MN | 55155
Office: (651) 757-2889
Kara.Leadbetter@state.mn.us



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Work Order No. 13203.001.001

Sulfur Dioxide Emission Test Report
Southern Cotton Oil
Lubbock, Texas
8-9 December 2003

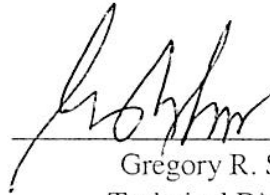
Prepared For

SOUTHERN COTTON OIL

2300 East 50th
Lubbock, Texas 79404



Templeton Simpkins
Project Manager
Approved for Transmittal



Gregory R. Sims
Technical Director
Approved for Transmittal

Prepared By

WESTON SOLUTIONS, INC.

1625 Pumphrey Ave.
Auburn, Alabama 36832-4303
Phone: (334) 466-5600 Fax: (334) 466-5660

8 January 2004



SECTION 1 INTRODUCTION

Weston Solutions, Inc. (WESTON®) was retained by Southern Cotton Oil (SCO) to conduct emission testing on several sources at the Lubbock, Texas facility to determine sulfur dioxide (SO₂) emissions for use by plant personnel.

WESTON performed the emission testing during 8-9 December 2003. The project team was comprised of the following individuals.

Name	Project Role
Temp Simpkins	Project Manager/Report Coordinator
Greg Sims	Technical Director
Curtis Cotney	Field Team Member

Mr. Steve Oldham of SCO coordinated the testing with plant operations and served as WESTON's technical contact throughout the effort. A representative of the Texas Commission on Environmental Quality (TCEQ) was not present during testing.

Tables 2-2 through 2-9 provide detailed summaries of the emission results. Any differences between the calculated results presented in the appendices and the results reported in the summary tables are due to rounding for presentation.

**TABLE 2-2
COIL MOUNT FAN DISCHARGE
SUMMARY OF SO₂ EMISSION RESULTS**

	Run 1	Run 2	Run 3	Mean
Date	12/8/03	12/8/03	12/8/03	----
Time Began	1205	1323	1442	----
Time Ended	1305	1423	1542	----
Stack Gas Data				
Temperature, °F	117	108	108	111
Velocity, ft/sec	75	74	79	76
Moisture, %	10.1	8.6	8.6	9.1
CO ₂ Concentration, %	0	0	0	0
O ₂ Concentration, %	20.9	20.9	20.9	20.9
VFR, x 10 ³ dscfm	3.5	3.5	3.7	3.6
Sulfur Dioxide				
Concentration, ppm	2.7	1.4	0.9	1.7
Emission Rate, lb/hr	0.09	0.05	0.03	0.06

**TABLE 2-3
EXPELLER FAN DISCHARGE
SUMMARY OF SO₂ EMISSION RESULTS**

	Run 1	Run 2	Run 3	Mean
Date	12/8/03	12/8/03	12/8/03	----
Time Began	0950	1102	1230	----
Time Ended	1050	1202	1330	----
Stack Gas Data				
Temperature, °F	76	82	91	83
Velocity, ft/sec	37	32	33	35
Moisture, %	1.8	2.0	2.9	2.2
CO ₂ Concentration, %	0	0	0	0
O ₂ Concentration, %	20.9	20.9	20.9	20.9
VFR, x 10 ³ dscfm	9.1	7.7	8.4	8.4
Sulfur Dioxide				
Concentration, ppm	2.6	3.5	1.3	2.5
Emission Rate, lb/hr	0.24	0.27	0.11	0.21