



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

5636 Southern Boulevard, Virginia Beach, Virginia 23462

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www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Maria R. Nold
Regional Director

March 31, 2015

Mr. C. Wayne Black
Director of Environmental Affairs
Perdue Agribusiness
PO Box 460
Lewiston-Woodville, North Carolina 27849

Location: Chesapeake
Registration No.: 60277
AFS Id. No.: 51-550-00038

Dear Mr. Black:

Attached is a permit to operate your bulk grain and oilseed facility pursuant to 9VAC5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution. This permit incorporates provisions from the permits dated September 4, 2014, February 4, 2013, October 5, 2009, and February 19, 2009.

The permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all permit conditions carefully.

In evaluating the application and arriving at a final decision to issue this permit, the Department deemed the application complete on December 5, 2014, and solicited written public comments by placing a newspaper advertisement in the Virginian-Pilot on Friday, February 13, 2015. The thirty day comment period (provided for in 9 VAC 5-80-270) expired on Monday, March 16, 2015 with no comments having been received in this office.

This approval to operate does not relieve Perdue Grain and Oilseed LLC of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Mr. C. Wayne Black
Perdue Agribusiness
Perdue Grain and Oilseed LLC
March 31, 2015
Page 2

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

David K. Paylor, Director
Department of Environmental Quality
PO Box 1105
Richmond, VA 23218-1105

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Rule 2A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please contact Ms. Laura D. Corl by phone at (757) 518-2178 or by e-mail at laura.corl@deq.virginia.gov.

Sincerely,

Troy D. Breathwaite
Regional Air Permits Manager

TDB/LDC/60277_024_027_15_CoverLetter_T5Renewal_SigMod_PerdueGrainandOilseed.docx

Attachment: Permit

cc: Manager, Data Analysis (electronic file submission)
Manager/Inspector, Air Compliance
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III (electronic file submission)



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Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9VAC5-80-50 through 9VAC5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Perdue Grain and Oilseed, LLC
Facility Name:	Perdue Grain and Oilseed, LLC
Facility Location:	501 Barnes Road Chesapeake, Virginia 23324
Registration Number:	60277
Permit Number:	TRO-60277

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Pages 3 through 44)

State Only Enforceable Requirements (Page 44)

March 31, 2015
Effective Date

March 30, 2020
Expiration Date

Troy D. Breathwaite
Regional Air Permits Manager

March 31, 2015
Signature Date

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I. Facility Information

Permittee

Perdue Grain and Oilseed, LLC
501 Barnes Road
Chesapeake, Virginia 23324

Responsible Official

Wayne Black
Director – Agribusiness Environmental

Facility

Perdue Grain and Oilseed, LLC
501 Barnes Road
Chesapeake, Virginia 23324

Contact Person

America Dowdie
Environmental Manager
757-494-5562

County-Plant Identification Number: 51-550-00038

NAICS/SIC: 311224-5 / 2075 Soybean Oil Mills
424510 / 5153 Grain and Field Bean Merchant Wholesalers

Facility Description:

This facility originally was two separate plants, one that received and shipped out grains and the other a soybean processing plant to manufacture both soybean oil and soybean meal. The facilities became so interdependent that in 2010, it was determined that these operations were one facility.

The grain side of the operation is a bulk grain transfer facility.

Grain receiving - Grain is received at the facility by truck, rail, barge and vessels. Grain is tested for various criteria and stored in the appropriate tanks. Particulate from all emission points are controlled by fabric filters.

Grain handling - Grain is transferred as needed to insure the quality of the each grain for shipment. Tanks may be blended for maximum quality. Particulate from all emission points are controlled by fabric filters.

Grain Shipping - Grain is loaded to vessels, barges, railcars and trucks (international and domestic) to meet the customer's needs. Grain is conveyed from the various storage tanks to the loading area. Particulate emissions are controlled by fabric filters and cyclones.

Grain Drying - Soybeans are dried to meet the oil plant requirements and sent to the oil plant for processing. All other grains are dried as needed for customers and shipped by marine vessels. Particulate from all emission points are controlled by cyclones and fabric filters.

The other half of the plant consists of a soybean oil processing plant, where the facility receives cleaned, dried and conditioned soybeans from the grain side, and produces both soybean oil and soybean meal from the incoming product. There are three distinct parts of the process:

Soybean Preparation - This involves receiving the cleaned and dried raw soybeans, then cracking, dehulling and flaking (thinly slicing) the soybeans. There are two products resulting from this process: pelletized hulls and flakes of soybean meal. The hulls are ground up, pelletized, and then stored in preparation for shipment. The flaked soybeans are transferred to the soybean oil extraction section. Particulate emissions are generated from these processes: storage tanks, conveyors, process vents and loading operations. Most of these units have either a fabric filter, cyclones, or both to control their emissions.

Oil Production and Soybean Oil Extraction - Mixtures of hexanes are used as a solvent to extract soybean oil from the soybean flakes. The extraction process produces a soybean oil/hexane mixture and hexane-laden flakes. Hexane from each product is recovered for reuse from a totally enclosed distillation system involving the following stages: an extraction step, hexane recovery units, condensers, solvent-hexane separators and hexane accumulation tanks. Hexane not removed is emitted to the atmosphere through the final vent and as fugitive emissions from leaks. Soybean Oil is the product of this operation which is stored on site until ready for shipment. Emissions from these processes include VOC and n-Hexane, which is a Hazardous Air Pollutant (HAP). The VOC and Hexane are controlled by the solvent recovery system.

Soybean Meal Processing - The hexane laden flakes go through a Desolventizer-Toaster (to remove the solvent from the flakes) and a dryer-cooler, where the hexane is driven off, collected and routed to the solvent recovery system. The spent flakes are then ground (after hexane has been removed) into a meal. The meal is sprayed lightly with soybean oil and is stored on-site and then conveyed to the loading area for shipment. The emissions from this section of the plant include Particulate, VOCs and n-Hexane emissions which are controlled by cyclones and fabric filters. The VOC emissions are not controlled if they do not go into the solvent recovery system.

Additional operations at the plant consist of steam generation. The facility uses a natural gas fired boiler for steam generation. The natural gas fired boiler can use diesel fuel in the event of gas curtailment. Other operations include shipping soybean oil and the pelletizing of hulls and dust and the shipping of the pelletized product.

This facility is a Title V major source of PM, PM₁₀, PM_{2.5}, VOC and HAPs. This source is located in an attainment area for all pollutants, and is a PSD major source. The source is subject to NSPS Subpart Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*, Subpart DD, *Standards of Performance for Grain Elevators*, MACT GGGG, *National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production* and MACT DDDDD, *National Emission Standards for Hazardous Air Pollutants: Industrial, Commercial, and Institutional Boilers and Process Heaters*. The facility is currently permitted under one federally enforceable State Operating Permit (SOP) dated February 19, 2009 (bulk grain terminal) and three minor NSR permits dated October 5, 2009 (hull pelletizer), September 4, 2014 (meal throughput, meal domes, dryer/cooler and desolventizer toaster) and February 4, 2013 (rental boiler).

This permit is the renewal of the current Title V permit and a significant modification to the same permit to incorporate the increase in fuel usage, the addition of the Desolventizer Toaster, the addition of the expander cooler, the addition of a new 2 garner scale in place of the whole bean tank in the soybean oil processing facility and an increase in throughput of soybeans and meal. The coal fired boiler has been removed because it has been permanently shut down and the PSD permit for it has been revoked.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Vent and Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Efficiency	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment – Grain Side								
EU 31	S31	Shanzer Column Grain Dryer, Model 8P7, NSPS Subpart DD (2008)	39.5 mmBtu/hr	24 mesh screen airs and cyclone	PCD 31	95%	PM/PM10	February 19, 2009
EU 32	S32	Shanzer Column Grain Dryer, Model 8P7, NSPS Subpart DD (2009)	39.5 mmBtu/hr	24 mesh screen airs and cyclone	PCD32	95%	PM/PM10	February 19, 2009
Grain Handling – Grain Side								
EU 33	S33	Truck/Container Loadout Station (2007)	200 ton/hr	Fabric Filter (Carter Day)	PCD 33	99%	PM/PM10	February 19, 2009
EU 34	S34	Neuro Marine Vessel Unloading Station (2002)	550 ton/hr	Fabric Filter (Neuro)	PCD 34	99%	PM/PM10	February 19, 2009
EU 35A	S35A	Marine Vessel Loading - Two Arms (1979)	1680 ton/hr	Fabric Filter (Carter Day)	PCD 35A	99%	PM/PM10	February 19, 2009
EU 35B	S35B	Marine Vessel Loading – Two Arms (1979)	1680 ton/hr	Fabric Filter (Carter Day)	PCD 35B	99%	PM/PM10	February 19, 2009
EU 36	S36	New Truck Unloading Station – Two Bays (2002)	1120 ton/hr	Fabric Filter (Carter Day)	PCD 36	99%	PM/PM10	
EU 37	S37	Old Truck Unloading Station - Two Bays (1979)	600 ton/hr	Fabric Filter (Carter Day)	PCD 37	99%	PM/PM10	February 19, 2009
EU 38A	S38	Rail Car Unloading Station (1979)	1390 ton/hr	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	February 19, 2009
EU 38B	S38	Rail Car Loading Station (1979)	600 ton/hr					
EU 38C	S38&39	Steel Storage Silos (1957)	5.0 Million Bushels					
EU 38D	S38&39	Weigh Stations for Loading/Unloading (1979)	1680 ton/hr					
EU 40A	S40	Turnheads For Concrete Storage Silos (1979)	1680 ton/hr	Fabric Filter (Carter Day)	PCD 40	99%	PM/PM10	February 19, 2009
EU 40B	S40	Concrete Storage Silos(1979)	1.5 Million Bushels					
EU 41	S41	Ship Loading Gallery (1979)	1680 ton/hr	Fabric Filter (Carter Day)	PCD 41	99%	PM/PM10	February 19, 2009
EU 42	S42	Internal Grain Transfer Operations	1680 ton/hr	Fabric Filter (Carter Day)	PCD 42	99%	PM/PM10	February 19, 2009
EU-46	S 38/39	Dust Tank A (2008)	22 TPH	Fabric Filter (Carter Day)	PCD 38/39	99%	PM/PM10	September 4, 2014
EU-47	S 38/39	Dust Tank B (2008)	22 TPH	Fabric Filter (Carter Day)	PCD 38/39	99%	PM/PM10	September 4, 2014
EU-48	S 48	Tank 100	900 TPH	None: Open Vent	-	-	-	-
EU-49	S 49	Tank 200	900 TPH	None: Open Vent	-	-	-	-
EU-50	S 50	Tank 300	900 TPH	None: Open Vent	-	-	-	-
EU-51	S 51	Tank 400	900 TPH	None: Open Vent	-	-	-	-
EU-52	S 52	Tank 500	900 TPH	None: Open Vent	-	-	-	-
EU-53	S 53	Tank 600	150 TPH	None: Open Vent	-	-	-	-
Fuel Burning Equipment – Oilseed Side								
EU 30	S30	Natural gas-fired rental boiler, < 100 mmBtu/hr, NSPS Dc, MACT DDDDD	96 mmBtu/hr	Low NOx burners	-	-	-	February 4, 2013
Oilseed Plant – Oilseed Side								
EU1	S1	Tank 31; Dried bean storage	125 ton/hr	None: Open Vent	-	-	-	-
EU2	S2	Tank 32; Dried bean storage	125 ton/hr	None: Open Vent	-	-	-	-
EU3	S3	Tank 33; Dried bean storage	125 ton/hr	None: Open Vent	-	-	-	-
EU4	S4	Tank 34; Dried bean storage	125 ton/hr	None: Open Vent	-	-	-	-
EU5	S5	Tank 35; Dried bean storage	125 ton/hr	None: Open Vent	-	-	-	-
EU6	S6	Tank 40; Dried bean storage	125 ton/hr	None: Open Vent	-	-	-	-
EU7	S7	Tank 41; Dried bean storage	125 ton/hr	None: Open Vent	-	-	-	-
EU8	S8	Tank 42; Dried bean storage	125 ton/hr	None: Open Vent	-	-	-	-
EU9	S9	Tank 43; Dried bean storage	125 ton/hr	None: Open Vent	-	-	-	-
EU10	S10	Tank 44; Dried bean storage	125 ton/hr	None: Open Vent	-	-	-	-

Emission Unit ID	Vent and Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Efficiency	Pollutant Controlled	Applicable Permit Date
EU-45	S11	Compuweigh Two Garner Scale - (2014)	300 ton/hr	Fabric filter - Whole bean dust collector Pneumafil 11.5-316-8	PCD 11	99%	PM/PM10	September 4, 2014
EU 11B		Whole bean cleaning to include aspirator	125 ton/hr	Fabric filter - Whole bean dust collector Pneumafil 11.5-316-8				-
EU 11C		Dehulling-5 primary soybean rolling/cracking rollers with 5 aspirators	125 ton/hr	Cyclone to fabric filter – Primary dehulling cyclone - Escher Wyss Cyclone Z1-200 to fabric filter Pneumafil 11.5-316-8				-
EU 11D		Dehulling-2 secondary hull cracking impactors (east & west) with 4 aspirators	119 ton/hr	Cyclone to fabric filter – Secondary dehulling cyclone - Escher Wyss Cyclone Z1-200 to fabric filter Pneumafil 11.5-316-8				-
EU 11E		Hull cleaning - coarse hull aspirator	5.0 ton/hr	Whole bean dust collector Pneumafil 11.5-316-8				-
EU 11F		Hull cleaning - mids hull aspirator	2.0 ton/hr	Whole bean dust collector Pneumafil 11.5-316-8				October 5, 2009
EU 12A	S12	Ground Hull Tank A	21.3 ton/hr	Ground hull dust collector - fabric filter Rolfes (Model 42-RLP-10) (Alanco)	PCD 12	99%	PM/PM10	October 5, 2009
EU 12B		Ground Hull Tank B	21.3 ton/hr					-
EU 12C		Grain Dust Transfer Line to Ground Hull Tanks	21 ton/day					-
EU 13A	S13	Flakers/discharge drag (North) (A to F); soybean flaking	61 ton/hr	Flaker aspiration cyclone Carter Day 56 HV	PCD 13A	95%	PM/PM10	-
EU 13B		Flakers/discharge drag (South) (H to N); soybean flaking	61 ton/hr	Flaker aspiration cyclone Carter Day 56 HV	PCD 13B	95%	PM/PM10	-
EU 44	S44A-D	RosKamp Expander After Cooler (2014)	105 ton/hr	Four cyclones (Two each in parallel)	PCD 44A-D	95%	PM/PM10	September 4, 2014
EU 14A	S14	Extractor	70 ton/hr meal	Crown Mineral Oil Recovery System	PCD 14	95%	VOC, HEXANE	-
EU 14B		Desolventizer toaster (2012)	70 ton/hr meal					September 4, 2014
EU 14C		Miscella Tank	70 ton/hr meal					-
EU 14D		Solvent Water Separator	70 ton/hr meal					-
EU 14E		Small Hexane Tank	70 ton/hr meal					-
EU 14F		Large Hexane Tank	70 ton/hr meal					-
EU 14G		1st Stage Rising Film Evaporator (RFE)	70 ton/hr meal					-
EU 14H		2nd Stage RFE	70 ton/hr meal					-
EU 14I		Finished Oil Stripper	70 ton/hr meal					-
EU 15	S15	DeSmet dryer/cooler; soybean meat drying and cooling (2003)	96 ton/hr	Dryer cooler cyclone – East (Kice CKS 132)	PCD 15	95%	PM/PM10	September 4, 2014
EU 16	S16	DeSmet dryer/cooler; soybean meat drying and cooling (2003)	96 ton/hr	Dryer cooler cyclone - West (Kice CKS 132)	PCD 16	95%	PM/PM10	September 4, 2014
EU 17A	S17	Meal Sifters	125 ton/hr	Meal grinding dust collector (Alanco 188 RLP8)	PCD 17	99%	PM/PM10	-
EU 17B		Meal Grinders	125 ton/hr					
EU 17C		Sifter Feed Drag	125 ton/hr					
EU 17D		Grinder Feed Drag	125 ton/hr					
EU 17E		Grinder Discharge Drag	125 ton/hr					
EU 18	S18	North meal tank; meal storage	125 ton/hr	None: Open Vent	-	-	-	-
EU 19	S19	South pellet/meal tank; pellet/meal storage	125 ton/hr	None: Open Vent	-	-	-	-
EU 20	S20	Meal shed	125 ton/hr	None: Open Vent	-	-	-	-
EU 21A	S21	Rail Loadout - Meal	125 ton/hr	Loadout dust collector - fabric filter (Alanco 188 RLP8)	PCD 21	99%	PM/PM10	-
EU 21B		Truck Loadout - Meal	125 ton/hr					
EU 21C		Merrick Scale - Meal	125 ton/hr					
EU 21D		Mettler Scale - Meal	125 ton/hr					
EU 22A	S22	Production tank blower; soybean hull pelletizing fines from ground hull tank	21 ton/hr	Hull receiving cyclone dust collector (Kice HRB24-10)	PCD 22	99%	PM/PM10	-
EU 22B		Hull Receiving Bin - Pellet production tank	21 ton/hr					
EU 23	S23	Pellet cooler; soybean hull pelletizing	15 ton/hr	Pellet cooler cyclone, (Model 1 HE 39), High Efficiency	PCD 23	95%	PM/PM10	-

Emission Unit ID	Vent and Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Efficiency	Pollutant Controlled	Applicable Permit Date
EU 24	S24	Meal Storage Dome #1 (2012)	250 ton/hr	Bin Vent with fabric Filter	PCD 24	99%	PM/PM10	-
EU 25	S25	Meal Storage Dome #2 (2012)	250 ton/hr	Bin Vent with fabric Filter	PCD 25	99%	PM/PM10	-
EU-26	S26	Meal Conveyors from Domes to bucket elevator and elevator drop with fabric filter (2012)	750 ton/hr	Bucket elevator fabric filter (Alanco 64 ASTM P10 STY 111)	PCD 26	99%	PM/PM10	-
Miscellaneous Conveyors and Elevator Legs								
C201A	S38	Rail Receiving Belt to C202	35,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
C201B	S38	Rail Receiving Belt to C202	35,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
C202	S39	Rail Receiving Belt to Leg 31	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 39	99%	PM/PM10	-
C203	S38/39	From Scale Tower to Concrete Tank	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38/39	99%	PM/PM10	-
C204	S40	From 203 to Turnhead 1	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 40	99%	PM/PM10	-
C205	S40	From Turnhead 1 to Turnhead 2	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 40	99%	PM/PM10	-
C206	S40	From Turnhead 2 to Turnhead 3	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 40	99%	PM/PM10	-
C211	S36	Truck Receiving to Leg 32	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 36	99%	PM/PM10	-
C212	S40	From Leg 32/C233 to Turnhead 1	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 40	99%	PM/PM10	-
C213	S40	From Turnhead 1 to Turnhead 2	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 40	99%	PM/PM10	-
C214	S40	From Turnhead 2 to Turnhead 3	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 40	99%	PM/PM10	-
C217	S34	Barge Unloader to C218	20,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 34	99%	PM/PM10	-
C218	S38	From C217 to Barge Scale	20,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
C219	Various	Tank 400 Feed Conveyor	25,000 Bushels/hour	Fabric Filter (Carter Day)	PCD various	99%	PM/PM10	-
C220	Various	Tripper Belt	25,000 Bushels/hour	Fabric Filter (Carter Day)	PCD various	99%	PM/PM10	-
C222	Various	Tank 100 Feed Conveyor	25,000 Bushels/hour	Fabric Filter (Carter Day)	PCD various	99%	PM/PM10	-
C231	S42	Discharge C241-C243 to C232	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 42	99%	PM/PM10	-
C232	S36	From C231 to Scale Tower	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 36	99%	PM/PM10	-
C233	S39	From Scale Tower to Concrete	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 39	99%	PM/PM10	-
C234	Tail S39 Head S38	From Scale Tower to Headhouse	35,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38/39	99%	PM/PM10	-
C236	S38	Tank 100 Discharge Belt	25,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
C237	S38	Tank 400 Discharge Belt	25,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
C241	S42	Concrete Drawoff	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 42	99%	PM/PM10	-
C242	S42	Concrete Drawoff	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 42	99%	PM/PM10	-
C243	S42	Concrete Drawoff	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 42	99%	PM/PM10	-
C244	S38	Steel Bin Drawoff	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
C245	S42	Meal Shed, Bins 17-20 to C246/231	35,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 42	99%	PM/PM10	-
C246	S36	Discharge C241-C243 to C249	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 36	99%	PM/PM10	-
C249	S36	From C246 to Scale Tower	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 36	99%	PM/PM10	-
C250	S38	Shipping, Scale Tower to Headhouse	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
C251	S38	Shipping, Headhouse to C252	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
C252	S41	Shipping, To C253	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 41	99%	PM/PM10	-
C253	S41	Shipping, Gallery Belt	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 41	99%	PM/PM10	-
C254	S35	Shipping, PECO 1 Belt	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 35	99%	PM/PM10	-
C255	S35	Shipping, PECO 2 Belt	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 35	99%	PM/PM10	-
C261	S39	Screenings, Scale Tower to Concrete	10,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 39	99%	PM/PM10	-
T1	S35/37	Old Truck Dump Tunnel	30,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 35/37	99%	PM/PM10	-
T2	S35	Old Dump Leg to T3	30,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 35	99%	PM/PM10	-
T3	S35	Top of Steel from T2	30,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 35	99%	PM/PM10	-
224	S38	Tank 300 Feed	30,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
225	S38	Tank 500 Feed	30,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-

Emission Unit ID	Vent and Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Efficiency	Pollutant Controlled	Applicable Permit Date
226	S38	30 Series Feed	10,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
227	S38	40 Series Feed	10,046 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
238	S39	Tank 200 Discharge	30,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 39	99%	PM/PM10	-
239	S39	Tank 300 Discharge	30,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 39	99%	PM/PM10	-
240	S39	Tank 500 Discharge	30,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 39	99%	PM/PM10	-
260	S39	Screenings Drag - Scale Tower	10,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 39	99%	PM/PM10	-
262	-	Screenings Drag - Concrete Bins	10,000 Bushels/hour	-	-	-	-	-
Leg31	S38	Rail Receiving	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
Leg32	S39	Truck Receiving	60,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 39	99%	PM/PM10	-
Leg34	S38	Lofting Leg (Barge Leg)	30,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 38	99%	PM/PM10	-
Leg35	S33/35	Old Truck Dump	30,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 33/35	99%	PM/PM10	-
Leg36	S39	Screening Leg	10,000 Bushels/hour	Fabric Filter (Carter Day)	PCD 39	99%	PM/PM10	-
Conveyor 200	S11	High Roller Conveyor	125 TPH	Fabric Filter Whole Bean Dust Collector	PCD 11	99%	PM/PM10	-
Conveyor 202		Tram Roller						
Conveyor 400		Bean Scale Discharge Drag						
Conveyor 550	S 54	Meal Shed Feed Conveyor	125 TPH	None, Open Vent in Meal Shed	-	-	-	-
Dome 1	S 24	Dome 1 Feed Conveyor	125 TPH	Bin Vent with Fabric Filter	PCD 24	99%	PM/PM10	-
Dome 2	S 25	Dome 2 Feed Conveyor	125 TPH	Bin Vent with Fabric Filter	PCD 25	99%	PM/PM 10	-

*The Size/Rated capacity and PCD efficiency is provided for informational purposes only, and is not an applicable requirement.

III. Fuel Burning Equipment-Grain Dryer Requirements

(Units EU 31 and EU 32)

A. Limitations

- Grain Dryer - Emission Controls** - Particulate emissions from the natural gas-fired grain dryers (Units EU 31 and EU 32) shall be controlled by a 24 mesh 'screen airs' and cyclone on the recirculating side of the dryer. The mesh screen and the cyclone shall be provided with adequate access for inspection and shall be in operation when the grain dryer is operating.
(9VAC5-80-110, 9VAC5-50-260 and Condition 9 of 2/19/2009 Permit)
- Grain Dryer - Throughput** - The grain throughput of the grain dryer (Unit EU 31) shall not exceed 1,000,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110, 9VAC5-50-260 and Condition 16 of 2/19/2009 Permit)
- Grain Dryer - Fuel** - The approved fuel for the grain dryers (Units EU 31 and EU 32) is natural gas. A change in the fuel may require a permit to modify and operate.
(9VAC5-80-110 and Condition 22 of 2/19/2009 Permit)
- Grain Dryer - Fuel Throughput** - The two natural gas-fired grain dryers (Units EU 31 and EU 32), combined shall consume no more than 154 million cubic feet of natural gas per year, calculated monthly as the sum of each consecutive 12- month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 23 of 2/19/2009 Permit)
- Grain Dryer - Emission Limits** - Emissions from both the fuel and the grain processed through the dryers (Units EU 31 and EU 32) shall not exceed the limits specified below:

	<u>Each</u>	<u>Combined</u>	
Particulate Matter (filterable and condensable)	3.9 lbs/hr	10.2 tons/yr	(9VAC5-50-260)
PM-10 (filterable and condensable)	1.1 lbs/hr	3.0 tons/yr	(9VAC5-50-260)
Nitrogen Oxides (as NO ₂)	2.0 lbs/hr	7.2 tons/yr	(9VAC5-50-260)
Carbon Monoxide	1.7 lbs/hr	3.1 tons/yr	(9VAC5-50-260)

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 1, 2, 3 and 4.
(9VAC5-80-110 and Condition 26 of 2/19/2009 Permit)

6. **Grain Dryer (NSPS) - Visible Fugitive Emission Limit** - Visible fugitive emissions from the grain dryers (Units EU 31 and EU 32) shall not exceed 0% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction. (9VAC5-80-110, 40 CFR 60, Subpart 60.302 (c)(2), and Condition 30 of 2/19/2009 Permit)

B. Monitoring

7. **Grain Dryer - Visible Emissions Evaluation** - The permittee shall conduct weekly visible emissions checks from the grain dryer stacks (Units EU 31 and EU 32) to demonstrate compliance with the visible emission limits contained in this permit. If visible emissions are noted from the stack, corrective action shall be taken to eliminate the visible emissions. The permittee shall keep a log of the observations including, but not limited to, the date, time, observation, observer's name, and any corrective action taken, (including, but not limited to, a brief description and date of completion of corrective action). (9VAC5-80-110, 9VAC5-50-30 G, 9VAC5-50-410, and 40 CFR 60.303.b.3.)
8. **Grain Dryer - Compliance Assurance Monitoring (CAM)** - The permittee shall monitor, operate, calibrate and maintain the CAM control devices controlling the CAM-affected units according to the following:

Units	Description	Control Device	Stack No.	Performance Criteria	Frequency	Indicator Range
EU 31	Shanzer Column Grain Dryer, Model 8P7, (2008)	Screens and Cyclone	S31	Visible emissions	Weekly	Yes or No
EU 32	Shanzer Column Grain Dryer, Model 8P7, (2009)	Screens and Cyclone	S32	Visible emissions	Weekly	Yes or No

(9VAC5-80-110 E and 40 CFR 64.6 (c))

9. **Grain Dryer - CAM-Affected Units - Monitoring** - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9. (9VAC5-80-110 E and 40 CFR 64.6 (c))
10. **Grain Dryer - CAM-Affected Units - Monitoring** - At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. (9VAC5-80-110 E and 40 CFR 64.7 (b))
11. **Grain Dryer - CAM-Affected Units - Monitoring** - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the CAM-affected unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions. (9VAC5-80-110 E 40 CFR 64.7 (c))

12. **Grain Dryer - CAM-Affected Units - Monitoring** - Upon detecting an excursion or exceedance, the permittee shall restore operation of the CAM-affected unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable. (9VAC5-80-110 E and 40 CFR 64.7 (d)(1))
13. **Grain Dryer - CAM-Affected Units - Monitoring** - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process. (9VAC5-80-110 E and 40 CFR 64.7(d)(2))
14. **Grain Dryer - CAM-Affected Units - Monitoring** - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved 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 indicator ranges or designated conditions, the permittee shall promptly notify the Tidewater Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. (9VAC5-80-110 E and 40 CFR 64.7(e))
15. **Grain Dryer - CAM-Affected Units - Monitoring** - If the number of exceedances or excursions exceeds 5% duration of the operating time for the CAM-affected unit for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:
 - a. Improved preventative maintenance practices;
 - b. Process operation changes;
 - c. Appropriate improvements to control methods;
 - d. Other steps appropriate to correct control performance; and
 - e. More frequent or improved monitoring.(9VAC5-80-110 E and 40 CFR 64.8(a) and (b))

C. Recordkeeping

16. **Grain Dryer - On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

- a. Annual throughput (in million cubic feet) of natural gas to the grain dryers (Units EU 31 and EU 32), combined, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- b. Annual throughput (in tons) of grain fed into the grain dryers (Units EU 31 and EU 32), combined, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- c. Log book records of all visible emissions checks.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years. (9VAC5-80-850 and 9VAC5-50-50 and Condition 33 of 2/19/2009 Permit)

17. **Grain Dryer - Compliance Assurance Monitoring (CAM) Recordkeeping** - The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to §64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

(9VAC5-80-110 E and 40 CFR 64.9(b))

18. **Grain Dryer - Recordkeeping for CAM** – The permittee shall keep records documenting the monitoring required by the CAM Plan, including:

- a. The date and time of observations, the name of the observer, and whether or not there were visible emissions;
- b. Number of excursions in each semi-annual reporting period;
- c. Corrective actions taken in response to excursions; and
- d. If applicable, any written QIP required by Condition 15 and 40 CFR 64.8 and any activities undertaken to implement a QIP.

These records shall be available for inspection by the DEQ and shall be current for the most recent five-year period.

(9VAC5-80-110 and 40 CFR 64.9(b)(1) & (2))

19. **Grain Dryer - Reporting for CAM** – The permittee shall submit written CAM reports as part of the Title V semi-annual monitoring reports required by Condition 133 of this permit to the Director, Tidewater Regional Office. Such reports shall include at a minimum:

- a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
- b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- c. A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

(9VAC5-80-110 F and 40 CFR 64.9(a))

IV. Grain Loading and Unloading Requirements

(Units EU 33, 34, 35A&B, 36, 37, 38A&B, 39A&B, 40A&B, 41, and 42)

A. Limitations

20. **Grain Loading and Unloading - Emission Controls - Vessel Unloading** - Particulate emissions from the marine vessel unloader (Unit EU 34) shall be controlled by a fabric filter (PCD 34) and a telescoping pneumatic pickup pipe. The fabric filter shall be provided with adequate access for inspection and shall be in operation when the marine vessel unloader is operating.
(9VAC5-80-110, 9VAC5-50-260, 40 CFR 60.302 (d)(3) and Condition 3 of 2/19/2009 Permit)
21. **Grain Loading and Unloading - Emission Controls - Vessel Loading** - Particulate emissions from all marine vessel loading (Unit EU 35A & B) shall be controlled by fabric filters (PCD 35A & PCD 35B). Each fabric filter shall be provided with adequate access for inspection and shall be in operation when associated marine vessel loading is underway. The height of each loading spout, during loading operations, should be held at the position necessary to minimize fugitive emissions leaving the hold of the vessel.
(9VAC5-80-110, 9VAC5-50-260, 40 CFR 60.302 (c)(4) and Condition 4 of 2/19/2009 Permit)
22. **Grain Loading and Unloading - Emission Controls - Rail Car Loading/Unloading** - Particulate emissions from all rail car loading and unloading (Units EU 38 A & B) shall be controlled by a fabric filter (PCD 38). The fabric filter shall be provided with adequate access for inspection and shall be in operation when the associated rail car loading or unloading is operating.
(9VAC5-80-110, 9VAC5-50-260, 40 CFR 60.302 (c)(1) and Condition 5 of 2/19/2009)
23. **Grain Loading and Unloading - Emission Controls - Truck Unloading** - Particulate emissions from all truck unloading operations (Units EU 36 & 37) shall be controlled by fabric filters (PCD 36 & 37). Each fabric filter shall be provided with adequate access for inspection and shall be in operation when the associated truck unloading is operating.
(9VAC5-80-110, 9VAC5-50-260, 40 CFR 60.302 (c)(1) and Condition 6 of 2/19/2009 Permit)
24. **Grain Loading and Unloading - Emission Controls - Truck and Container Loading** - Particulate emissions from all truck and container loading operations (Unit EU 33) shall be controlled by a fabric filter (PCD-33). The fabric filter shall be provided with adequate access for inspection and shall be in operation when the associated truck and container loading operations are operating.
(9VAC5-80-110, 9VAC5-50-260, 40 CFR 60.302 (c)(3) and Condition 10 of 2/19/2009 Permit)
25. **Grain Loading and Unloading - Emission Controls - Grain Handling Operations** - Particulate emissions from all grain handling operations (Units EU 33-41) shall be controlled by fabric filters (PCD-33-41). Each fabric filter shall be provided with adequate access for inspection and shall be in operation when grain handling operations are underway.
(9VAC5-80-110, 9VAC5-50-260, 40 CFR 60.302 (c)(2) and Condition 7 of 2/19/2009 Permit)
26. **Grain Loading and Unloading - Emission Controls - Storage Silo Vents** - Particulate emissions from the storage silos vents (Units EU 39A&B) shall be controlled by a fabric filter (PCD 39). The fabric filter shall be provided with adequate access for inspection and shall be in operation when grain transfer to the storage silos is operating.
(9VAC5-80-110, 9VAC5-50-260 and Condition 8 of 2/19/2009 Permit)
27. **Grain Loading and Unloading - Fugitive Dust Emission Controls** – Fugitive dust emission controls shall include the following, or equivalent, as approved by DEQ:
 - a. Installation and use of long socks, and/or shrouds shall be used to minimize fine particle dust emissions when the dust tanks (EU-46 & 47) must be unloaded in times of emergency or equipment malfunction.
 - b. Prompt removal of spilled grains, or leaked grains from the facility site shall be vacuumed and stored away from the wind to minimize the emissions of PM from these materials.
(9 VAC 5-50-90, 9 VAC 5-80-1180, 9 VAC 5-50-260 and Condition 9 of 9/4/14 NSR Permit)

28. **Grain Loading and Unloading - Monitoring Devices** – All fabric filters (PCD 33-41) shall be equipped with devices to continuously measure the differential pressure drop across each fabric filter. Each monitoring device shall be installed, maintained, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer’s written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the associated processes are operating.
(9VAC5-80-850 and Condition 11 of 2/19/2009 Permit)
29. **Grain Loading and Unloading - Throughput - Truck Unloading** - The grain throughput of the new and old truck unloading stations (Unit EU-36 & 37) shall not exceed 1,875,000 tons per year, combined, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110, 9VAC5-50-260 and Condition 13 of 2/19/2009 Permit)
30. **Grain Loading and Unloading - Throughput - Rail Car Unloading** - The grain throughput of the rail car unloading station (Unit EU-38A) shall not exceed 1,910,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110, 9VAC5-50-260 and Condition 14 of 2/19/2009 Permit)
31. **Grain Loading and Unloading - Throughput - Marine Vessel Unloading** - The grain throughput of the marine vessel unloading station (Units EU-35A&B) shall not exceed 1,345,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110, 9VAC5-50-260 and Condition 15 of 2/19/2009 Permit)
32. **Grain Loading and Unloading - Throughput - Truck and Container Loading** - The grain and grain products (meal) throughput of the truck and container loading facilities (Unit EU 33) shall not exceed 100,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110, 9VAC5-50-260 and Condition 21 of 2/19/2009 Permit)
33. **Grain Loading and Unloading - Throughput - Rail Car Loading** - The grain and grain products (meal) throughput of the rail car loading station (Unit EU 38B) shall not exceed 530,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110, 9VAC5-50-260 and Condition 19 of 2/19/2009 Permit)
34. **Grain Loading and Unloading - Throughput - Marine Vessel Loading** - The grain and grain products (meal) throughput of the marine vessel loading station (Unit EU 35 A&B) shall not exceed 5,500,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110, 9VAC5-50-260 and Condition 20 of 2/19/2009 Permit)

35. **Grain Loading and Unloading - Throughput – Internal Grain Transfer Operations** - The grain and grain products (meal) throughput for the internal grain transfer operations (Units EU 33-41) shall not exceed 24,520,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 (9VAC5-80-110, 9VAC5-50-260 and Condition 17 of 2/19/2009 Permit)
36. **Grain Loading and Unloading - Throughput - Storage Silos** - The grain and grain products (meal) throughput for the storage silos (Units EU 39A&B and EU 40A & B) shall not exceed 6,130,000 tons per year, combined, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 (9VAC5-80-110, 9VAC5-50-260 and Condition 18 of 2/19/2009 Permit)
37. **Grain Loading and Unloading - Emission Limits** - Emissions from the fabric filters or screens associated with the following emissions points shall not exceed the limits specified below:

<u>Operation</u>	<u>NSPS</u>	<u>PM</u>	<u>PM10</u>
Truck Unloading (Units EU 36 & 37)	0.01 gr/dscf	16.0 tons/yr	5.0 tons/yr
Rail Car Unloading (Unit EU 38A)	0.01 gr/dscf	4.8 tons/yr	1.2 tons/yr
Marine Vessel Unloading (Unit EU 34)	0.01 gr/dscf	1.2 tons/yr	0.3 tons/yr
Truck/Container Loading (Unit EU 33)	0.01 gr/dscf	0.5 tons/yr	0.2 tons/yr
Rail Car Loading (Unit EU 38B)	0.01 gr/dscf	0.1 tons/yr	0.01 tons/yr
Marine Vessel Loading (Unit EU 35 A&B)	0.01 gr/dscf	20.9 tons/yr	5.2 tons/yr
Internal Handling (Units EU 33-41)	0.01 gr/dscf	22.0 tons/yr	12.3 tons/yr
Storage Silo Loading (Units EU 39A&B, 40A&B)	N/A	12.7 tons/yr	11.4 tons/yr

These emissions are derived from the estimated overall emission contributions from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined from the listed Conditions 20-26, 29-36, 39, and 40.

The particulate standard - gr/dscf - applies to dust collector exhausts. Test methods and procedures described in 40 CFR 60.303 are to be used for any compliance demonstrations for gr/dscf limitations.
 (9VAC5-80-110, 9VAC5-50-260 and Condition 25 of 2/19/2009 Permit)

38. **Grain Loading and Unloading - Facility-Wide Emission Limits** - Total emissions from the operation of the grain elevator facility shall not exceed the limits specified below:

Particulate Matter	88.4 tons/yr (9VAC5-50-260)
PM-10	38.7 tons/yr (9VAC5-50-260)
Nitrogen Oxides (as NO ₂)	7.7 tons/yr (9VAC5-50-260)
Carbon Monoxide	6.5 tons/yr (9VAC5-50-260)

(9VAC5-80-110, and Condition 27 of 2/19/2009 Permit)

39. **Grain Loading and Unloading - Visible Emission Limit - Fabric Filters (NSPS)** - Visible emissions from the control equipment (each fabric filter) (PCD 33-41) associated with truck loading and unloading, rail loading and unloading, marine vessel loading and unloading and grain handling operations shall not exceed 0% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9VAC5-80-110, 40 CFR 60.302 (b)(2) and Condition 28 of 2/19/2009 Permit)

40. **Grain Loading and Unloading - Visible Fugitive Emission Limits - Loading/Unloading (NSPS)** - Visible fugitive emissions shall not exceed the following opacity limits:

Operation	Opacity Limit
Truck unloading (Units EU 36 & 37),	5% (40 CFR 60.302 (c)(1))
Rail loading and unloading operations (Units EU 38A&B)	5% (40 CFR 60.302 (c)(1))
Grain handling operations (Units EU 38C & D, 40A&B, 42)	0% (40 CFR 60.302 (c)(2))
Truck and container loading operations (Unit EU 33)	10% (40 CFR 60.302 (c)(3))
Marine vessel loading operations (Units EU 35A&B, EU-41)	20% (40 CFR 60.302 (c)(4))

as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9VAC5-80-110 and Conditions 29, 30, 31 and 32 of 2/19/2009 Permit)

B. Monitoring

41. **Grain Loading and Unloading - Monitoring Device Observation** – To ensure good performance of the control equipment, the monitoring devices used to continuously measure differential pressure drop across the fabric filters (PCD 33-41) shall be observed for normal readings by the permittee with a frequency of not less than once per week. The permittee shall keep a log of the observations from the monitoring devices.
(9VAC5-80-850 and Condition 12 of 2/19/2009 Permit)

42. **Grain Loading and Unloading - Visible Emission Monitoring for Fugitive Emissions Sources** - The permittee shall perform periodic visual observations of fugitive emission areas of the facility (loading/unloading of trucks, rail cars, marine vessels, containers, and the grain handling operations) during normal operation once weekly to show compliance with opacity standards in Condition 40. Such observations shall consist of one six-minute observation of visible emissions. If visible emissions are noted, the permittee shall take corrective action to eliminate the visible emissions. The permittee shall keep a log of all observations and any corrective actions taken. The logbook shall be kept on site and available for inspection by the DEQ for the most recent 5 year period.
(9VAC5-80-110 and 9VAC5-50-110)

43. **Grain Loading and Unloading - Compliance Assurance Monitoring (CAM)** - The permittee shall monitor, operate, calibrate and maintain the CAM control devices controlling the CAM-affected units according to the following:

Units	Description	Control Device	Stack No.	Performance Criteria	Frequency	Indicator Range
EU 33	Truck/Container Loadout Station (2007)	Fabric Filters	S33	Visible emissions	Weekly	Yes or No
EU 34	Neuero Marine Vessel Unloading Station (2002)	Fabric Filters	S34	Visible emissions	Weekly	Yes or No
EU 35A	Marine Vessel Loading - Two Arms (1979)	Fabric Filters	S35A	Visible emissions	Weekly	Yes or No
EU 35B	Marine Vessel Loading – Two Arms (1979)	Fabric Filters	S35B	Visible emissions	Weekly	Yes or No
EU 36	New Truck Unloading Station – Two Bays (2002)	Fabric Filters	S36	Visible emissions	Weekly	Yes or No
EU 37	Old Truck Unloading Station - Two Bays (1979)	Fabric Filters	S37	Visible emissions	Weekly	Yes or No
EU 38A	Rail Car Unloading Station (1979)	Fabric Filters	S38	Visible emissions	Weekly	Yes or No
EU 38B	Rail Car Loading Station (1979)	Fabric Filters	S38	Visible emissions	Weekly	Yes or No
EU 38C	Steel Storage Silos (1950)	Fabric Filters	S38&39	Visible emissions	Weekly	Yes or No
EU 38D	Weigh Stations for Loading/Unloading (1979)	Fabric Filters	S38&39	Visible emissions	Weekly	Yes or No
EU 40A	Turnheads For Concrete Storage Silos (1979)	Fabric Filters	S40	Visible emissions	Weekly	Yes or No
EU 40B	Concrete Storage Silos(1979)	Fabric Filters	S40	Visible emissions	Weekly	Yes or No
EU 41	Ship Loading Gallery (1979)	Fabric Filters	S41	Visible emissions	Weekly	Yes or No

(9VAC5-80-110 E and 40 CFR 64.6 (c))

44. **Grain Loading and Unloading - CAM-Affected Units - Monitoring** - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.

(9VAC5-80-110 E and 40 CFR 64.6 (c))

45. **Grain Loading and Unloading - CAM-Affected Units - Monitoring** - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the CAM-affected unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.

(9VAC5-80-110 E 40 CFR 64.7 (c))

46. **Grain Loading and Unloading - CAM-Affected Units - Monitoring** - At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
(9VAC5-80-110 E and 40 CFR 64.7 (b))
47. **Grain Loading and Unloading - CAM-Affected Units - Monitoring** - Upon detecting an excursion or exceedance, the permittee shall restore operation of the CAM-affected unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.
(9VAC5-80-110 E and 40 CFR 64.7 (d)(1))
48. **Grain Loading and Unloading - CAM-Affected Units - Monitoring** - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
(9VAC5-80-110 E and 40 CFR 64.7(d)(2))
49. **Grain Loading and Unloading - CAM-Affected Units - Monitoring** - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved 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 indicator ranges or designated conditions, the permittee shall promptly notify the Tidewater Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
(9VAC5-80-110 E and 40 CFR 64.7(e))
50. **Grain Loading and Unloading - CAM-Affected Units - Monitoring** - If the number of exceedances or excursions exceeds 5% duration of the operating time for the CAM-affected unit for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:
- a. Improved preventative maintenance practices;
 - b. Process operation changes;
 - c. Appropriate improvements to control methods;
 - d. Other steps appropriate to correct control performance; and
 - e. More frequent or improved monitoring.
- (9VAC5-80-110 E and 40 CFR 64.8(a) and (b))

51. **Grain Loading and Unloading Compliance Assurance Monitoring (CAM) Recordkeeping** - The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to §64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
(9VAC5-80-110 E and 40 CFR 64.9(b))

C. Recordkeeping

52. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

- a. Annual throughput of:
 - (1) grain (in tons) unloaded from trucks (Units EU 36 & 37);
 - (2) grain (in tons) unloaded from rail cars (Unit EU 38A);
 - (3) grain (in tons) unloaded from marine vessels (Unit EU 34);
 - (4) grain (in tons) loaded into trucks and containers (Unit EU 33),
 - (5) grain and grain products (meal) (in tons) loaded into rail cars (Unit EU 38B);
 - (6) grain and grain products (meal) (in tons) loaded into marine vessels (Units EU 35A&B);
 - (7) grain and grain products (meal) (in tons) fed through the grain handling operations (Units EU 31, 32, 33, 34, 35A&B, 36, 37 and 38A&B); and
 - (8) grain and grain products (meal) (in tons) fed through the storage silos (Units EU 38C and 39A), combined,

calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

- b. Operation and control device monitoring records for each fabric filter as required in Conditions 28 and 41.
- c. Results of all stack tests, visible emissions evaluations and performance evaluations.
- d. Scheduled and unscheduled maintenance and operator training.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9VAC5-50-50, 9VAC5-80-110 and Condition 33 of 2/19/2009 Permit)

53. **Grain Loading and Unloading - Recordkeeping for CAM** – The permittee shall keep records documenting the monitoring required by the CAM Plan, including:
- a. The date and time of observations, the name of the observer, and whether or not there were visible emissions;
 - b. Number of excursions in each semi-annual reporting period;
 - c. Corrective actions taken in response to excursions; and

- d. If applicable, any written QIP required by Condition 50 and 40 CFR 64.8 and any activities undertaken to implement a QIP.

These records shall be available for inspection by the DEQ and shall be current for the most recent five-year period.

(9VAC5-80-110 and 40 CFR 64.9(b)(1) & (2))

54. **Grain Loading and Unloading - Reporting for CAM** – The permittee shall submit written CAM reports as part of the Title V semi-annual monitoring reports required by General Condition 133 of this permit to the Director, Tidewater Regional Office. Such reports shall include at a minimum:
 - a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - c. A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

(9VAC5-80-110 F and 40 CFR 64.9(a))

V. Boiler Requirements

(Unit EU 30)

A. Limitations

55. **Boiler Requirements - Emission Controls** - Emissions from the boiler (Unit EU 30) shall be minimized by the use of clean burning fuel, good combustion practices, and proper maintenance procedures. The boiler shall be provided with adequate access for inspection.
 (9VAC5-80-110 and Condition 3 of 2/4/13 Permit)
56. **Boiler Requirements - Emission Controls** - Nitrogen Oxide (NO_x) emissions from the boiler (Unit EU 30) shall be controlled by the use of low NO_x burners. The low NO_x burners shall be operated in accordance with the manufacturer's specifications.
 (9VAC5-80-110, 9VAC5-50-260 and Condition 4 of 2/4/13 Permit)
57. **Boiler Requirements - Restrictions** - The boiler (Unit EU 30) shall be limited to a maximum rated heat capacity of 98.0 MMBtu/hr or less.
 (9VAC5-80-110, 9VAC5-50-260 and Condition 5 of 2/4/13 Permit)
58. **Boiler Requirements - Fuel** - The approved fuels for the boiler (Unit EU 30) are natural gas and diesel fuel. Diesel fuel may only be used in cases where gas curtailment has taken place, in a gas supply emergency and for periodic testing firing diesel fuel. A change in the fuels may require a permit to modify and operate.
 (9VAC5-80-110 and Condition 6 of 2/4/13 Permit)
59. **Boiler Requirements - Fuel Throughput** - The boiler shall consume no more than the following:

Natural Gas	841.65 million cubic feet per year
Diesel fuel	1,100,000 gallons per year

This total fuel usage shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 (9VAC5-80-110 and Condition 7 of 2/4/13 Permit)

60. **Boiler Requirements - Fuel** - The fuels shall meet the specifications below:

DIESEL FUEL which meets the ASTM D975 specification for numbers 1 or 2 fuel oil:

Maximum sulfur content per shipment: 0.0015% (15 ppm)

NATURAL GAS:

Minimum heat content: 1,000 Btu/cf HHV
 as determined by ASTM D1826, D2382, or
 a DEQ-approved equivalent method.

(9VAC5-80-110, 9VAC5-50-410 and Condition 8 of 2/4/13 Permit)

61. **Boiler Requirements - Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of diesel fuel. Each fuel supplier certification shall include the following:
- The name of the fuel supplier;
 - The date on which the diesel fuel was received;
 - The quantity of diesel fuel delivered in the shipment;
 - A statement that the diesel fuel complies with the American Society for Testing and Materials specifications for diesel fuel oils; and
 - The sulfur content of the diesel fuel (classification as Ultra Low Sulfur Oil).
- (9VAC5-80-110, 9VAC5-50-410 and Condition 9 of 2/4/13 Permit)

62. **Boiler Requirements - Process Emission Limits** - Emissions from the operation of the boiler shall not exceed the limits specified below:

	Firing diesel fuel	Firing Natural gas	Total
Particulate Matter (PM) (including condensable PM)	2.3 lbs/hr	0.7 lbs/hr	3.2 tons/yr
PM-10	0.7 lbs/hr	0.7 lbs/hr	3.2 tons/yr
PM-2.5	0.2 lbs/hr	0.7 lbs/hr	3.2 tons/yr
Carbon Monoxide	3.6 lbs/hr	8.2 lbs/hr	35.3 tons/yr
Nitrogen Oxides (as NO ₂)	14.2 lbs/hr	9.6 lbs/hr	42.1 tons/yr
Volatile Organic Compounds	0.1 lbs/hr	0.5 lbs/hr	2.3 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 59, 60, 61, and 63. (9VAC5-80-110, 9VAC5-50-260 and Condition 11 of 2/4/13 Permit)

63. **Boiler Requirements - Visible Emission Limit** - Visible emissions from the boiler (Unit EU 30) shall not exceed 10% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20% opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction. (9VAC5-80-110, 9VAC5-50-260, 9VAC5-50-410, 40 CFR 60 Subpart Dc and Condition 12 of 2/4/13 Permit)

B. Monitoring

64. **Boiler Requirements - Visible Emission Observations - Firing Natural Gas** - The permittee shall observe the stack of the boiler (Unit EU 30) for a minimum of least six (6) minutes at least once per week (Monday - Sunday) during daylight hours of operations for visible emissions. If visible emissions are noted from the stack, operational adjustments or maintenance shall be performed on the boiler to eliminate the visible emissions. Should visible emissions continue after these actions have been undertaken, a visible emissions evaluation (VEE) shall be immediately conducted on the stack for at least six (6) minutes in accordance with Method 9 (40 CFR 60, Appendix A). If the VEE opacity average for the stack exceeds 10%, the VEE shall continue for one (1) hour from initiation to determine compliance with the opacity limit. If compliance is not demonstrated by this VEE, timely corrective action shall be taken to bring the boiler back to compliance. Results of the visible observations and/or VEEs shall be recorded in an operation log. These records shall include, but are not limited to; the name of the observer, date and time of the observation, an indication of presence or absence of visible emissions, whether the emissions are representative of normal operation and if the emissions are not representative, the cause of the abnormal emissions, the duration of any visible emission incident, and any corrective action to eliminate visible emissions. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A). (9VAC5-80-110 and Condition 13 of 2/4/13 Permit)

65. **Boiler Requirements - Visible Emission Monitoring Plan for Firing Diesel Fuel** - The permittee shall submit a site-specific opacity monitoring plan, in accordance with 40 CFR Part 60.47c(f)(3), to be approved by DEQ. The permittee shall comply with the site specific opacity monitoring plan to show compliance with the opacity limits listed in Condition 63. (9VAC5-80-110, 9VAC5-50-410, 40 CFR 60 Subpart Dc and Condition 14 of 2/4/13 Permit)

66. **Boiler Requirements - Annual Tune-up** - The permittee shall perform annual tune-ups on the boiler in accordance with Table 3 of 40 CFR 63 Subpart DDDDD. Each tune-up shall be performed no more than 13 months after the previous tune-up. The permittee shall be in compliance with this condition by the date specified in 40 CFR Part 63, Subpart DDDDD. (9VAC5-80-110 and 9VAC5-60-100 and Condition 15 of 2/4/13 Permit)

67. **Boiler Requirements - Energy Assessment** - The permittee shall perform an energy assessment of the facility in accordance with Table 3 of 40 CFR 63 Subpart DDDDD. The permittee shall be in compliance with this condition by the date specified in 40 CFR Part 63, Subpart DDDDD. (9VAC5-80-110 and 9VAC5-60-100 and Condition 16 of 2/4/13 Permit)

C. Recordkeeping

68. **Boiler Requirements - On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
- a. Installation date and removal date for each boiler replacement event;
 - b. Monthly and annual quantity of natural gas (in million cubic feet) consumed by the boiler (Unit EU 30) while at the Perdue Grain and Oilseed plant. Annual consumption shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months;
 - c. Monthly and annual quantity of diesel fuel (in gallons) consumed by the boiler (Unit EU 30) while at the Perdue Grain and Oilseed plant. Annual consumption shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months;
 - d. Record logs for all visible emission evaluations (VEE) and visible emission observations performed on the boiler (Unit EU 30) while at the Perdue Grain and Oilseed plant;
 - e. All fuel supplier certifications;
 - f. All notifications;
 - g. Records of the annual tune-ups; and
 - h. Records of the initial energy assessment.
- These records shall be available for inspection by the DEQ and shall be current for the most recent five years. (9VAC5-80-110, 9VAC5-50-50, 9VAC5-50-410, 9VAC5-60-100 and Condition 17 of 2/4/13 Permit)

D. Reporting

69. **Boiler Requirements - On-going Notifications** - The permittee shall furnish written notification to the DEQ Tidewater Regional Office (Air Compliance/Inspection) of:
- a. The actual date for each installation of a boiler (Unit EU 30) within 30 calendar days after such date; and
 - b. The actual first start-up date of each boiler (Unit EU 30) brought on-site within 15 calendar days after such date.
 - c. If the boiler is subject to NSPS Subpart Dc (40 CFR Part 60, Subpart Dc) one (1) additional copy of the written notifications referenced in items a and b above shall be sent to:

Associate Director
Office of Air Enforcement (3AP10)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029
 - d. The annual Notification of Compliance Status report that indicates the boiler was tuned up in accordance with 40 CFR 63.7540.

- e. With the Notification of Compliance Status, include a signed certification that the energy assessment was completed in accordance with Table 3 of 40 CFR 63, Subpart DDDDD and is an accurate depiction of the facility at the time of the assessment.

(9VAC5-80-110, 9VAC5-50-50, 9VAC5-60-100, 40 CFR 60.48c and Condition 18 of 2/4/13 Permit)

70. **Boiler Requirements - Removal Notification** - The permittee shall submit written notification to the DEQ Tidewater Regional Office (Air Compliance/Inspection) each time the boiler (Unit EU 30) is removed from the Perdue Grain and Oilseed plant. Failure to submit this written notification may subject the facility to enforcement action.

(9VAC5-80-110 and Condition 19 of 2/4/13 Permit)

71. **Boiler Requirements - Initial Notifications** - The permittee shall furnish written notification to the Tidewater Regional Office of the anticipated date of any performance tests of the boiler (Unit EU 30) postmarked at least 30 days prior to such date.

A copy of the written notification above is to be sent to:

Associate Director
Office of Air Enforcement and Compliance Assistance (3AP20)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(9VAC5-50-50, 9VAC5-80-110 and Condition 20 of 2/4/13 Permit)

VI. Hull Grinding and Pelletizing Line

Emission Units EU 11F, 12A&B, 22A&B, 23,

A. Limitations

72. **Hull Grinding and Pelletizing Line - Emission Controls** - Particulate emissions from the hopper shall be controlled by a bin vent filter. Particulate emissions from the air cooler shall be controlled by a cyclone. The filter and cyclone shall be provided with adequate access for inspection and shall be in operation when the hull pelletizer is operating. The filter shall be equipped with a device to continuously measure the differential pressure drop across the bin vent filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times. An annual internal inspection shall be conducted on the cyclone by the permittee to insure structural integrity.
(9VAC5-80-110, 9VAC5-50-260 and Condition 3 of 10/5/2009 NSR Permit)
73. **Hull Grinding and Pelletizing Line - Fugitive Dust** - Fugitive Dust and Fugitive emissions controls shall include the following, or equivalent, as approved by DEQ:
- Open equipment for conveying or transporting materials likely to create objectionable air pollution when airborne shall be covered, or treated in an equally effective manner at all time when in motion.
 - Prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
 - Dust from material handling, and load-outs, shall be controlled by wet suppression, or equivalent.
(9VAC5-50-90, 9VAC5-80-110 and Condition 4 of 10/5/2009 NSR Permit)
74. **Hull Grinding and Pelletizing Line - Production** - The hull pelletizer operation shall produce no more than 131,400 tons of pellets per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 7 of 10/5/2009 NSR Permit)
75. **Hull Grinding and Pelletizing Line - Process Emission Limits** - Emissions from the operation of the hull pelletizer process shall not exceed the limits specified below:
- | | | |
|--------------------|------------|-------------|
| Particulate Matter | 0.6 lbs/hr | 2.6 tons/yr |
| PM-10 | 0.6 lbs/hr | 2.6 tons/yr |
- These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emissions limits. Compliance with these emission limits may be determined as stated in numbers 72, 74, 76 and 77.
(9VAC5-80-110 and Condition 8 of 10/5/2009 NSR Permit)
76. **Hull Grinding and Pelletizing Line - Visible Emission Limit** - Visible emissions from the cyclone and bin vent filter shall not exceed 5% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9VAC5-80-110, 9VAC5-50-260 and Condition 9 of 10/5/2009 NSR Permit)

B. Monitoring

77. **Hull Grinding and Pelletizing Line - Monitoring Devices** - The hull pelletizer operation shall be equipped with devices to continuously measure the differential pressure across the bin vent filter. Each monitoring device shall be installed, maintained, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the hull pelletizer is operating.
(9VAC5-80-110, 9VAC5-50-260 and Condition 5 of 10/5/2009 NSR permit)
78. **Hull Grinding and Pelletizing Line - Monitoring Device Observation** - To ensure good performance, the bin vent filter monitoring device used to continuously measure the differential pressure drop shall be observed by the permittee with a frequency of not less than once per day. The permittee shall keep a log of the observations from the bin vent filter monitoring device.
(9VAC5-80-110, 9VAC5-50-260 and Condition 6 of 10/5/2009 NSR permit)
79. **Hull Grinding and Pelletizing Line - Visible Emissions Check** - The permittee shall check for visible emissions from the bin vent filter and cyclone stacks on a weekly basis. If visible emissions are noted, the permittee shall either take corrective action to eliminate the visible emissions or conduct an EPA Method 9 (40 CFR 60, Appendix A) visible emissions evaluation for a period of 18 minutes. The permittee shall keep a record of the observations, corrective actions and any Method 9 evaluations conducted.
(9VAC5-80-110)

C. Recordkeeping

80. **Hull Grinding and Pelletizing Line - On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Tidewater Regional Office. These records shall include, but are not limited to:
- Annual production of pellets, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - Operation and control device monitoring records for the bin vent filter as required in Condition 78.
 - Visible emission observation records, including any corrective actions taken and any Method 9 evaluations conducted.
 - Scheduled and unscheduled maintenance and operator training.
- These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-80-110, 9VAC5-50-50 and Condition 10 of 10/5/2009 NSR Permit)

D. Testing and Notifications

81. **Hull Grinding and Pelletizing Line - Emissions Testing** - The hull pelletizer operation shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.
(9VAC5-80-110, 9VAC5-50-30 F and Condition 11 of 10/5/2009 NSR permit)

VII. Soybean Oil Plant Requirements

(Emission Units EU1-10, 45, 11-13, 14, 15, 16, 17-20, 21, 24, 25, 26, 38, 39, 40, 44)

A. Limitations

82. **Soybean Oil Plant Requirements - Emission Controls** - Particulate Matter (PM, PM₁₀ and PM_{2.5}) emissions from the expander after-cooler (EU-44) shall be controlled by high efficiency cyclones. The cyclones shall be provided with adequate access for inspection and shall be in operation when the expander after-cooler is operating.
(9VAC5-80-110, 9VAC5-50-260 and Condition 3 of 9/4/2014 NSR Permit)
83. **Soybean Oil Plant Requirements - Emission Controls** - Particulate Matter (PM, PM₁₀ and PM_{2.5}) emissions from the two garner scale (EU-45) shall be controlled by a fabric filter. The fabric filter shall be provided with adequate access for inspection and shall be in operation when the two garner scale is operating.
(9VAC5-80-110, 9VAC5-50-260 and Condition 4 of 9/4/2014 NSR Permit)
84. **Soybean Oil Plant Requirements - Emission Controls** - Particulate Matter (PM, PM₁₀ and PM_{2.5}) emissions from the dryer/cooler process (EU-15 and 16) shall be controlled by cyclones (stacks S-15 and S-16). The cyclones shall be provided with adequate access for inspection and shall be in operation when the dryer/cooler is operating.
(9VAC5-80-110, 9VAC5-50-260 and Condition 5 of 9/4/2014 NSR Permit)
85. **Soybean Oil Plant Requirements - Emission Controls** - Particulate emissions from the soybean meal storage domes (EU-24 and EU-25) and the associated conveyors and bucket elevator (EU-26) shall be controlled by fabric filters (S-24, S-25 & S-26). Each fabric filter shall be provided with adequate access for inspection and shall be in operation when the meal is being transferred to or from the soybean meal storage domes.
(9VAC5-80-110, 9VAC5-50-260 and Condition 6 of 9/4/2014 NSR Permit)
86. **Soybean Oil Plant Requirements - VOC Work Practice Standards** - At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.
(9 VAC 5-50-20 F and 9 VAC 5-80-1180 and Condition 10 of 9/4/2014 NSR Permit)
87. **Soybean Oil Plant Requirements - Monitoring Devices** - Each fabric filter shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter (S-38, S-39 & S-40). Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the fabric filter is operating.
(9VAC5-80-110, 9VAC5-50-260 and Condition 7 of 9/4/2014 NSR Permit)
88. **Soybean Oil Plant Requirements - Production** - The production of soybean meal from the dryer/cooler (EU-15 and 16) and desolventizer toaster (EU-14B) shall not exceed 594,648 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 11 of 9/4/2014 NSR Permit)

89. **Soybean Oil Plant Requirements - Processing** - The soybean oil plant shall process no more than 792,865 tons of beans per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 (9VAC5-80-110 and Condition 12 of 9/4/2014 NSR Permit)

90. **Soybean Oil Plant Requirements - Throughput** - The throughput of soybean meal to the soybean meal storage domes (EU-24 and EU-25) shall not exceed 594,648 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 (9VAC5-80-110 and Condition 13 of 9/4/2014 NSR Permit)

91. **Soybean Oil Plant Requirements - Solvent Loss Factor** - The solvent loss factor shall not exceed 0.200 gallons/ton of beans processed, calculated monthly using the following equation:

$$\frac{\sum_{i=1}^{12} \text{Total Solvent Lost (gallons)}}{\sum_{i=1}^{12} \text{Total Weight of Beans Processed (tons)}} = \text{Solvent Loss Factor (gal/ton)}$$

The solvent loss factor shall be calculated monthly as the sum of the total solvent loss for the most recent 12 months, divided by the total weight of beans processed during the most recent 12 months.
 (9VAC5-80-110, 9VAC5-50-260 and Condition 14 of 9/4/2014 NSR Permit)

92. **Soybean Oil Plant Requirements - MACT GGGG Emissions Requirements - HAP Compliance Ratio** - The permittee must calculate a compliance ratio in accordance with 63.2840. For each operating month, the permittee must calculate a compliance ratio which compares the actual HAP loss to the allowable HAP loss for the previous 12 operating months as shown below in Equation 1. An operating month, as defined in 63.2872, is any calendar month in which a source processes a listed oilseed, excluding any entire calendar month in which the source operated under an initial startup period subject to 63.2850(c)(2) or (d)(2) or a malfunction period subject to 63.2850(e)(2).

$$\text{Compliance Ratio} = \frac{\text{Actual Hap Loss}}{\text{Allowable Hap Loss}} = \frac{f * \text{Actual Solvent Loss}}{0.64 * \sum_{i=1}^n ((\text{Oilseed})_i * (\text{SLF})_i)} \quad (\text{Eq. 1})$$

Where:

f = The weighted average volume fraction of HAP in solvent during the previous 12 operating months, as determined in 40 CFR 63.2854, dimensionless.

0.64 = the average volume fraction of HAP in solvent in the baseline performance data, dimensionless.

Actual Solvent Loss = Gallons of actual solvent loss during previous 12 operating months, as determined in 40 CFR 63.2853.

Oilseed = Tons of soybeans processed during the previous 12 operating months, as shown in 40 CFR 63.2855.

SLF = for existing facilities processing soybeans = 0.2 gal/ton.

If the compliance ratio is less than or equal to 1.00, your source was in compliance with the HAP emissions requirements for the previous operating month.
 (9VAC5-80-110, 9VAC5-60-100 (40 CFR 63.2840) and Condition 15 of 9/4/2014 NSR Permit)

93. **Process Emission Limits** - Emissions from the operation of the expander after-cooler (EU-44) shall not exceed the limits specified below:

Particulate Matter (PM)	1.2 tons/yr
PM-10	6.2 tons/yr
PM-2.5	8.5 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 82, 88 and 97. (9VAC5-80-1180, 9VAC5-50-260, 9VAC5-60-320 and Condition 16 of 9/4/2014 NSR Permit)

94. **Process Emission Limits** - Emissions from the operation of the desolventizing toaster (EU-14B) and dryer/cooler process (EU-15 and 16) shall not exceed the limits specified below:

Particulate Matter (PM)	11.0 tons/yr
PM-10	2.8 tons/yr
PM-2.5	0.5 tons/yr
Volatile Organic Compounds (as Hexane)	50.5 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 84, 88 and 97. (9VAC5-80-1180, 9VAC5-50-260, 9VAC5-60-320 and Condition 17 of 9/4/2014 NSR Permit)

95. **Process Emission Limits** - Emissions from the operation of the under dome conveyors and bucket elevator (EU-26) and soybean meal storage domes (S-24 & 25) shall not exceed the limits specified below:

Particulate Matter (PM)	0.0025 gr/dscf
PM-10	0.0025 gr/dscf

Compliance with these emission limits may be determined as stated in Conditions 85, 90, 98, and 103. (9VAC5-80-1180, 9VAC5-50-260 and Condition 18 of 9/4/2014 NSR Permit)

96. **Soybean Oil Plant-Wide Emission Limits** - Total emissions from the soybean oil plant shall not exceed the limits specified below:

Particulate Matter (PM)	152.9 tons/yr
PM-10	48.7 tons/yr
PM-2.5	15.8 tons/yr
Volatile Organic Compounds	448.8 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 88, 90, 91, 97, 98, and 116. (9VAC5-80-1180, 9VAC5-50-260, 9VAC5-60-320 and Condition 19 of 9/4/2014 NSR Permit)

97. **Soybean Oil Plant Requirements - Visible Emission Limit** - Visible emissions from the expander after-cooler stacks (EU-44), the dryer/cooler process stacks (S-15 and S-16) and the two garner scale (EU-45) shall not exceed 5% opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction. (9VAC5-80-110, 9VAC5-50-80, 9VAC5-50-260 and Condition 20 of 9/4/2014 NSR Permit)

98. **Soybean Oil Plant Requirements - Visible Emission Limit** - Visible emissions from the soybean meal storage area, including the conveyors, the domes, the bucket elevator and the associated fabric filters (S-24, S-25 & S-26), shall not exceed 5% opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9VAC5-80-110, 9VAC5-50-260 and Condition 21 of 9/4/2014 NSR Permit)
99. **Soybean Oil Plant Requirements - Existing Source Standard for Visible Emissions** - Unless specified otherwise in this part, no owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any hour of not more than 60% opacity. Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section. This standard is applicable to the following emission units: EU 6-10, 11B, 11C, 11D, 11E, 11F, 13A, 13B, 17C, 17E, 18, 19, 20, 21A, and 21B.
(9VAC5-40-80, 9VAC5-40-940 and 9VAC5-80-110)
100. **Soybean Oil Plant Requirements - New Source Standard for Visible Emissions** - No owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 30% opacity. Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this condition. This standard is applicable to Emission Units EU 12A, 12B, 12C, 15, 16, 22A, 22B, and 23.
(9VAC5-50-80 and 9VAC5-80-110)

B. Monitoring

101. **Soybean Oil Plant Requirements - Monitoring Device Observation** - To ensure good performance, the differential pressure gauge used to continuously measure the pressure drop across each fabric filter shall be observed by the permittee with a frequency of not less than once per week. The permittee shall keep a log of the observations including, but not limited to, the date, time, observation, observer's name, the acceptable range and corrective action taken, (including, but not limited to, a brief description and date of completion of corrective action) from the differential pressure gauge.
(9VAC5-80-110 and Condition 8 of 9/4/2014 NSR Permit)
102. **Soybean Oil Plant Requirements - Visible Emissions Evaluation** - Quarterly and upon request by the DEQ, the permittee shall conduct additional visible emission evaluations from the expander after-cooler (EU-44), the dryer/cooler cyclone stacks (S-15 & S-16) and the two garner scale (EU-45) to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Tidewater Regional Office. The permittee shall keep a log of the observations including, but not limited to, the date, time, observation, observer's name, and any corrective action taken, (including, but not limited to, a brief description and date of completion of corrective action).
(9VAC5-80-110, 9VAC5-50-30 G and Condition 22 of 9/4/2014 NSR Permit)
103. **Soybean Oil Plant Requirements - Visible Emissions Evaluation** - Quarterly and upon request by the DEQ, the permittee shall conduct additional visible emission evaluations from the fabric filters in the soybean meal storage area (conveyors, bucket elevator and domes) (S-24, S-25 & S-26) to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Tidewater Regional Office. The permittee shall keep a log of the observations including, but not limited to, the date, time, observation, observer's name, and any corrective action taken, (including, but not limited to, a brief description and date of completion of corrective action).
(9VAC5-80-110, 9VAC5-50-30 G and Condition 23 of 9/4/2014 NSR Permit)

104. **Facility Wide Requirements - Visible Emissions Check** - The permittee shall observe the following stacks (EU S6-10, S11, S12, S13, S15, S16, S17, S18, S19, S20, S21, S22 and S23) for a minimum of least six (6) minutes at least once per week (Monday - Sunday) during daylight hours of operations for visible emissions. If visible emissions are noted from any stack, corrective action shall be taken to eliminate the visible emissions. Should visible emissions continue after these actions have been undertaken, a visible emissions evaluation (VEE) shall be immediately conducted on that stack for at least 6 minutes in accordance with Method 9 (40 CFR 60, Appendix A). If the VEE opacity average for the stack exceeds 20%, the VEE shall continue for one (1) hour from initiation to determine compliance with the opacity limit. If compliance is not demonstrated by this VEE, timely corrective action shall be taken to bring the units back into compliance. Results of the visible observations and/or VEEs shall be recorded in an operation log. These records shall include, but are not limited to; the name of the observer, date and time of the observation, an indication of presence or absence of visible emissions, whether the emissions are representative of normal operation and if the emissions are not representative, the cause of the abnormal emissions, the duration of any visible emission incident, and any corrective action to eliminate visible emissions. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).
(9VAC5-80-110)

105. **Soybean Oil Plant Requirements - MACT GGGG Compliance Requirements** - The permittee shall comply with the hazardous pollutant emissions standards by adhering to the following requirements:

- a. Submit the necessary notifications, as applicable, in accordance with 40 CFR 63.2860.
- b. Develop and implement a plan for demonstrating compliance in accordance with 40 CFR 63.2851.
- c. Develop a written startup, shutdown and malfunction (SSM) plan in accordance with the provisions in 40 CFR 63.2852.
- d. Maintain all necessary records you have used to demonstrate compliance with the regulation in accordance with 40 CFR 63.2862.
- e. Submit the reports as required by the regulations at 40 CFR 63.2861(a), (c) & (d).
- f. Within 15 days of the beginning date of a malfunction as defined by 40 CFR 63.2, the permittee shall choose to comply with one of the options defined in the regulations at 40 CFR 63.2850 (e)(1) through (e)(2).

(9VAC5-80-110, 9VAC5-60-100(40 CFR 63.2850) and Condition 26 of 9/4/2014 NSR Permit)

106. **Soybean Oil Plant Requirements - MACT GGGG - Facility Plan for Demonstrating Compliance** - The permittee must develop and implement a written plan for demonstrating compliance that provides the detailed procedures that the facility will follow to monitor and record data necessary for demonstrating compliance with the regulations. The permittee shall keep the 'plan' on-site and readily available as long as the facility is operational. If any changes are made to the 'plan' for demonstrating compliance, then you must keep all previous versions of the plan and make them readily available for inspection for at least 5 years after each revision. The 'plan' for demonstrating compliance must include the following items:

- a. The name and address of the owner or operator.
- b. The physical address of the vegetable oil production process.
- c. A detailed description of all methods of measurement used to determine your solvent losses, HAP content of solvent, and the tons of soybean processed.
- d. When each measurement will be made.
- e. Examples of each calculation used to determine your compliance status. Include examples of how you will convert data measured with one parameter to other items for use in compliance determination.
- f. Example logs of how data will be recorded.
- g. A plan to ensure that the data continue to meet compliance demonstration needs.

(9VAC5-80-110, 9VAC5-60-100(40 CFR 63.2851) and Condition 27 of 9/4/2014 NSR Permit)

107. **Soybean Oil Plant Requirements - Compliance Assurance Monitoring (CAM)** - The permittee shall monitor, operate, calibrate and maintain the CAM control devices controlling the CAM-affected units according to the following:

Units	Description	Control Device	Stack No.	Performance Criteria	Frequency	Indicator Range
EU 22A&B	Pellet tank blower	Dust Collector	S22	Visible emissions	Weekly	Yes or No
EU 11C	De-hulling Rollers	Cyclone/Fabric Filter	S11	Visible emissions	Weekly	Yes or No
EU 11D	De-hulling Impactors	Cyclone/Fabric Filter	S11	Visible emissions	Weekly	Yes or No
EU 12A&B	Hull grinding	Dust collector	S12	Visible emissions	Weekly	Yes or No
EU 13A&B	Flaking	Cyclones	S13	Visible emissions	Weekly	Yes or No
EU 15 & 16	Dryer/Cooler	Cyclones	S15/S16	Visible emissions	Weekly	Yes or No
EU 17A&B	Meal grinding and sifting	Dust collector	S17	Visible emissions	Weekly	Yes or No
EU 20, 21C & D	Meal Loadout	Fabric filter	S20/21	Visible emissions	Weekly	Yes or No

(9VAC5-80-110 E and 40 CFR 64.6 (c))

108. **Soybean Oil Plant Requirements - CAM** - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.

(9VAC5-80-110 E and 40 CFR 64.6 (c))

109. **Soybean Oil Plant Requirements - CAM** - At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

(9VAC5-80-110 E and 40 CFR 64.7 (b))

110. **Soybean Oil Plant Requirements - CAM** - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the CAM-affected unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.

(9VAC5-80-110 E 40 CFR 64.7 (c))

111. **Soybean Oil Plant Requirements - CAM** - Upon detecting an excursion or exceedance, the permittee shall restore operation of the CAM-affected unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.
(9VAC5-80-110 E and 40 CFR 64.7 (d)(1))
112. **Soybean Oil Plant Requirements - CAM** - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
(9VAC5-80-110 E and 40 CFR 64.7(d)(2))
113. **Soybean Oil Plant Requirements - CAM** - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved 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 indicator ranges or designated conditions, the permittee shall promptly notify the Tidewater Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
(9VAC5-80-110 E and 40 CFR 64.7(e))
114. **Soybean Oil Plant Requirements - CAM** - If the number of exceedances or excursions exceeds 5% duration of the operating time for the CAM-affected unit for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:
- a. Improved preventative maintenance practices;
 - b. Process operation changes;
 - c. Appropriate improvements to control methods;
 - d. Other steps appropriate to correct control performance; and
 - e. More frequent or improved monitoring.
- (9VAC5-80-110 E and 40 CFR 64.8(a) and (b))
115. **Soybean Oil Plant Requirements - Annual Cyclone Inspections** – An annual visual internal inspection shall be conducted on each cyclone by the permittee to insure structural integrity. The permittee shall keep a log of observations. The logbook shall be kept on site and available for inspection by the DEQ for the most recent 5 year period.
(9VAC5-80-110)

C. Recordkeeping and Reporting

116. **Soybean Oil Plant Requirements - On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
- Annual production of soybean meal (in tons) from the expander after-cooler, the dryer/cooler process, and the two garner scale, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - Annual tons of beans processed at the soybean oil plant, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - Annual throughput of soybean meal (in tons) to the storage domes, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - Monthly solvent loss factor, including the monthly total solvent loss for the most recent 12 months and the monthly total weight of beans processed during the most recent 12 months. (Condition 91)
 - Results of all stack tests, visible emission evaluations and performance evaluations.
 - Records of visible emissions evaluations logs and any corrective action taken.
 - The results of the annual internal inspections of the cyclones.
 - Scheduled and unscheduled maintenance and operator training.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years. (9VAC5-80-110, 9VAC5-50-50 and Condition 28 of 9/4/2014 NSR Permit)

117. **Soybean Oil Plant Requirements - MACT Reports and Schedules** - After the initial notifications, the following reports shall be submitted to the DEQ at the appropriate time intervals:
- The first annual compliance certification is due 12 calendar months after the initial notification of compliance status. Recurring compliance certifications shall be submitted annually.
 - Submit a deviation report in accordance with 40 CFR 63.2861(b) for each compliance determination in which the compliance ratio exceeds 1.00 as determined under 40 CFR 63.2840(c). Submit the deviation report by the end of the month following the calendar month in which you determined the deviation.
 - If you choose to operate your facility under an initial startup period subject to 40 CFR 63.2850(c)(2) or (d)(2), or a malfunction period subject to 40 CFR 63.2850 (e)(2), you must submit a periodic startup, shutdown, malfunction (SSM) report by the end of the calendar month following each month in which the initial startup period or malfunction period occurred.
 - If you handle a SSM during an initial startup period subject to 40 CFR 63.2850(c)(2) or (d)(2) or a malfunction period subject to 40 CFR 63.2850(e)(2) differently from procedures in the SSM plan and the relevant emission requirements in 40 CFR 63.2840 are exceeded, then you must submit an immediate SSM report. Immediate SSM reports consist of telephone call or facsimile transmission to the DEQ within 2 working days after starting actions inconsistent with the SSM plan, followed by a letter within 7 working days after the end of the event.

(9VAC5-80-110, 9VAC5-60-100(40 CFR 63.2861) and Condition 29 of 9/4/2014 NSR Permit)

118. **Soybean Oil Plant Requirements - MACT Recordkeeping** - The permittee shall satisfy the recordkeeping requirements by the compliance date for the facility as specified in Table 1 of 40 CFR 63.2834. These records include but are not limited to:
- A plan for demonstrating compliance and a SSM plan;

- b. A complete record of solvent inventory, including beginning and ending inventories, dates of operating period, solvent received, purchased and recovered during each calendar month, all solvent inventory adjustments, additions or subtractions, the total solvent loss for each calendar month and the actual solvent loss in gallons for each operating month;
- c. The weighted average volume fraction of HAP in the extraction solvent;
- d. A complete record of soybean inventory, including beginning and ending inventories, the current operating status of the facility, soybeans received, all soybean inventory adjustments, additions or subtractions for normal operating periods and the tons of soybeans processed during each operating month;
- e. Facilities that have completed 12 operating months and are not operating under an initial startup period or a malfunction period shall keep the following records:
 - (1) The 12 operating months rolling sum of the actual solvent loss in gallons;
 - (2) The weighted average volume fraction of HAP in extraction solvent received for the previous 12 operating months;
 - (3) The 12 operating months rolling sum of soybeans processed at the facility;
 - (4) A determination of the compliance ratio;
 - (5) A statement of the facility's compliance status with all of the requirements in 40 CFR 63.2850;
- f. For each SSM event subject to an initial startup period or a malfunction period, the permittee shall keep records of the following information:
 - (1) A description and date of the SSM event, its duration, and reason it qualifies as an initial startup or malfunction;
 - (2) An estimate of the solvent loss in gallons for the duration of the initial startup or malfunction period with supporting documentation;
 - (3) A checklist or other mechanism to indicate whether the SSM plan was followed during the initial startup or malfunction period; and
- g. Facility records must be in a form suitable and readily available for review in accordance with 40 CFR 63.10(b)(1). Each record must be kept for 5 years following the date of each occurrence, measurement, corrective action, report or record. These records must be kept on-site for at least two years and may be kept off-site for the remaining 3 years.

(9VAC5-80-110, 9VAC5-60-100(40 CFR 63.2862 and 63.2863) and Condition 30 of 9/4/2014 NSR Permit)

119. Soybean Oil Plant Requirements - CAM Recordkeeping - The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to §64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
(9VAC5-80-110 E and 40 CFR 64.9(b))

120. Soybean Oil Plant Requirements - CAM Recordkeeping – The permittee shall keep records documenting the monitoring required by the CAM Plan, including:

- a. The date and time of observations, the name of the observer, and whether or not there were visible emissions;
- b. Number of excursions in each semi-annual reporting period;
- c. Corrective actions taken in response to excursions; and

- d. If applicable, any written QIP required by Condition 119 and 40 CFR 64.8 and any activities undertaken to implement a QIP.

These records shall be available for inspection by the DEQ and shall be current for the most recent five-year period.

(9VAC5-80-110 and 40 CFR 64.9(b)(1) & (2))

121. **Soybean Oil Plant Requirements - CAM Reporting** – The permittee shall submit written CAM reports as part of the Title V semi-annual monitoring reports required by General Condition 133 of this permit to the Director, Tidewater Regional Office. Such reports shall include at a minimum:

- a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
- b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- c. A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

(9VAC5-80-110 F and 40 CFR 64.9(a))

D. Testing

122. **Soybean Oil Plant Requirements - Emissions Testing** - The grain and oilseed plant shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.

(9VAC5-50-30 F, 9VAC5-80-110 and Condition 25 of 9/4/2014 NSR Permit)

VIII. Insignificant Emission Units

123. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9VAC5-80-720 B)	Rated Capacity (9VAC5-80-720 C)
	None Identified			

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110.

IX. Permit Shield & Inapplicable Requirements

124. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR Part 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	EU-14 has two hexane tanks both of which are smaller than the applicability of this regulation.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
 (9VAC5-80-140)

X. General Conditions

General Conditions - Federal Enforceability -All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
 (9VAC5-80-110 N)

125. **General Conditions - Permit Expiration**- This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
 (9VAC5-80-80 B, C, and F, 9VAC5-80-110 D and 9VAC5-80-170 B)
126. **General Conditions - Permit Expiration**-The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
 (9VAC5-80-80 B, C, and F, 9VAC5-80-110 D and 9VAC5-80-170 B)

127. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the Board takes final action on the application under 9VAC5-80-150.
(9VAC5-80-80 B, C, and F, 9VAC5-80-110 D and 9VAC5-80-170 B)
128. **General Conditions - Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.
(9VAC5-80-80 B, C, and F, 9VAC5-80-110 D and 9VAC5-80-170 B)
129. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
(9VAC5-80-80 B, C, and F, 9VAC5-80-110 D and 9VAC5-80-170 B)
130. **General Conditions - Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9VAC5-80-80 B, C, and F, 9VAC5-80-110 D and 9VAC5-80-170 B)
131. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
- a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.
- (9VAC5-80-110 F)
132. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9VAC5-80-110 F)

133. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1 and September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:
- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - (1) Exceedance of emissions limitations or operational restrictions;
 - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
 - c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”

(9VAC5-80-110 F)

134. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for 5 years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is January 1 to December 31.
- b. The identification of each term or condition of the permit that is the basis of the certification.
- c. The compliance status.
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
- e. Consistent with subsection 9VAC5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
- f. Such other facts as the permit may require to determine the compliance status of the source.
- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9VAC5-80-110 K.5)

135. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Director, Tidewater Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 133 of this permit.
(9VAC5-80-110 F.2 and 9VAC5-80-250)
136. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Tidewater Regional Office by e-mail, fax or telephone of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9VAC5-40-50 C and 9VAC5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9VAC5-40-40 and 9VAC5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Tidewater Regional Office.
(9VAC5-20-180 C)
137. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9VAC5-80-110 G.1)
138. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9VAC5-80-110 G.2)
139. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9VAC5-80-110 G.3)
140. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9VAC5-80-190 and 9VAC5-80-260)
141. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9VAC5-80-110 G.5)
142. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9VAC5-80-110 G.6)

143. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.
(9VAC5-80-110 K.1)
144. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9VAC5-80-50 through 9VAC5-80-300 was issued shall pay permit fees consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9VAC5-80-110 H and 9VAC5-80-340 C)
145. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
 - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
 - c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
 - d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
 - e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
- (9VAC5-40-90 and 9VAC5-50-90)
146. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9VAC5-50-20 E and 9VAC5-40-20 E)
147. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.
(9VAC5-80-110 J)
148. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
- d. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
(9VAC5-80-110 K.2)

149. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.
(9VAC5-80-110 L)

150. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9VAC5-80-150 E)

151. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.
(9VAC5-80-160)

152. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.
(9VAC5-80-160)

153. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.
(9VAC5-80-160)

154. **General Conditions - Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of Condition 155 are met.
(9VAC5-80-250)

155. **General Conditions - Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within 2 working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9VAC5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9VAC5-20-180 C.
(9VAC5-80-250)
156. **General Conditions - Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
(9VAC5-80-250)
157. **General Conditions - Malfunction as an Affirmative Defense** - The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9VAC5-80-250)
158. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9VAC5-80-190 C and 9VAC5-80-260)
159. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9VAC5-80-80 E)
160. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)

161. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9VAC5-60-70 and 9VAC5-80-490 A)
162. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)
163. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.
(9VAC5-80-110 I)

XI. State-Only Enforceable Requirements

164. **State-Only Enforceable Requirements** - The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9VAC5-80-290 concerning review of proposed permits by EPA and draft permits by affected states.
- a. Odor - 9 VAC 5 Chapter 40, Article 2 and 9 VAC 5 Chapter 50, Article 2.
 - b. State toxics rule - 9 VAC 5 Chapter 60, Articles 4 and 5.
(9VAC5-80-110 N and 9VAC5-80-300)