



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

Craig R. Nicol
Regional Director

July 12, 2017

Mr. Wayne Black
Director, Perdue AgriBusiness
Perdue AgriBusiness - Chesapeake
Perdue Farms, Inc.
3539 Governors Road
Lewiston Woodville, North Carolina 27849

Location: Chesapeake
Registration No.: 60277

Dear Mr. Black:

Attached is an amended Title V permit to operate your facility pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution.

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.

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

To review any federal rules referenced in the attached permit, the US Government Publishing Office maintains the text of these rules at www.ecfr.gov, Title 40, Part 60 and/or 63.

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. Wayne Black
Perdue AgriBusiness – Chesapeake
Perdue Farms, Inc.
July 12, 2017
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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 Dan Dobbins by phone at (757) 518-2138 or by e-mail at Daniel.dobbins@deq.virginia.gov.

Sincerely,


Janet F. Weyland
Regional Deputy Director

JFWDDD\60277_032_17_cvr\tr_T5sigmod_Perdue AgriBusiness_Ches.docx

Attachment: Permit

cc: Director, OAPP (electronic file submission)
Director, Office of Permits and Air Toxics (3AP10), U.S. EPA, Region III (electronic file submission)]
Manager/Inspector, Air Compliance



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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 48)

March 31, 2015

Effective Date

July 12, 2017

Significant Modification

March 30, 2020

Expiration Date

Janet F. Weyland
Regional Deputy Director

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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

Erica McAfee
Environmental Manager
757-494-5562
erica.mcafee@perdue.com

County-Plant Identification Number: 51-550-00038

Facility Description

SIC 2075 (NAICS 311224, 311225) - Soybean Oil Mills: Establishments primarily engaged in manufacturing soybean oil, cake, and meal, and soybean protein isolates and concentrates, or in processing purchased soybean oil other than into edible cooking oils.

SIC 5153 (NAICS 424510) - Grain and Field Beans: Establishments primarily engaged in buying and/or marketing grain (such as corn, wheat, oats, barley, and unpolished rice); dry beans; soybeans, and other inedible beans. Country grain elevators primarily engaged in buying or receiving grain from farmers are included, as well as terminal elevators and other merchants marketing grain.

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	Pollutant Controlled	Applicable Permit Date
Boilers and Engines							
EG-1	SEG-1	Emergency Generator Engine	760 bhp	-	-	-	July 12, 2017
B-1 through B-4	SB-1 through SB-4	Four natural gas / diesel fuel-fired boilers	27.01 MMBtu/hr / 26.04 MMBtu/hr, each	Low NOx burners	-	-	July 12, 2017
TB-1, TB-2	STB-1, STB-2	Two natural gas / diesel fuel-fired boilers, one back-up	≤98 mmBtu/hr, each	Low NOx burners	-	-	September 28, 2015
Grain Elevator Facility							
EU-31	S31	Shanzer Column Grain Dryer, Model 8P7, NSPS Subpart DD (2008)	39.5 mmBtu/hr, 150 tons/hr	24 mesh screen airs and cyclone	PCD 31	PM/PM10/PM2.5	July 12, 2017
EU-32	S32	Shanzer Column Grain Dryer, Model 8P7, NSPS Subpart DD (2009)	39.5 mmBtu/hr, 150 tons/hr	24 mesh screen airs and cyclone	PCD32	PM/PM10/PM2.5	July 12, 2017
EU-33	S33	Truck/Container Loadout Station (2007)	200 ton/hr	Fabric Filter (Carter Day)	PCD 33	PM/PM10/PM2.5	July 12, 2017
EU-34	S34	Neuero Marine Vessel Unloading Station (2002)	550 ton/hr	Fabric Filter (Neuero)	PCD 34	PM/PM10/PM2.5	July 12, 2017
EU-56	S56	Neuero Marine Vessel Loading and Unloading Station	1,680 ton/hr	Fabric Filter (Neuero)	PCD 56	PM/PM10/PM2.5	July 12, 2017
EU-35A	S35A	Marine Vessel Loading - Two Arms (1979)	1,680 ton/hr	Fabric Filter (Carter Day)	PCD 35A	PM/PM10/PM2.5	July 12, 2017
EU-35B	S35B	Marine Vessel Loading – Two Arms (1979)	1,680 ton/hr	Fabric Filter (Carter Day)	PCD 35B	PM/PM10/PM2.5	July 12, 2017
EU-36	S36	New Truck Unloading Station – Two Bays (2002)	1,120 ton/hr	Fabric Filter (Carter Day)	PCD 36	PM/PM10/PM2.5	July 12, 2017
EU-37	S37	Old Truck Unloading Station - Two Bays (1979)	1,120 ton/hr	Fabric Filter (Carter Day)	PCD 37	PM/PM10/PM2.5	July 12, 2017
EU-38A	S38	Rail Car Unloading Station (1979)	1,390 ton/hr	Fabric Filter (Carter Day)	PCD 38	PM/PM10/PM2.5	July 12, 2017
EU-38B	S38	Rail Car Loading Station (1979)	600 ton/hr				

Emission Unit ID	Vent and Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
EU-38C	S38&39	Steel Storage Silos (1957)	5.0 Million Bushels		PCD 38 & 39		
EU-38D	S38&39	Weigh Stations for Loading/Unloading (1979)	1,680 ton/hr				
EU-40A	S40	Turnheads For Concrete Storage Silos (1979)	1,680 ton/hr	Fabric Filter (Carter Day)	PCD 40	PM/PM10/PM2.5	July 12, 2017
EU-40B	S40	Concrete Storage Silos(1979)	1.5 Million Bushels				
EU-41	S41	Ship Loading Gallery (1979)	1,680 ton/hr	Fabric Filter (Carter Day)	PCD 41	PM/PM10/PM2.5	July 12, 2017
EU-42	S42	Internal Grain Handling Operations	1,680 ton/hr	Fabric Filter (Carter Day)	PCD 42	PM/PM10/PM2.5	July 12, 2017
EU-46	S 38/39	Dust Tank A (2008)	22 TPH	Fabric Filter (Carter Day)	PCD 38/39	PM/PM10/PM2.5	July 12, 2017
EU-47	S 38/39	Dust Tank B (2008)	22 TPH	Fabric Filter (Carter Day)	PCD 38/39	PM/PM10/PM2.5	July 12, 2017
EU-48	S 48	Tank 100	900 TPH	None: Open Vent	-	-	July 12, 2017
EU-49	S 49	Tank 200	900 TPH	None: Open Vent	-	-	July 12, 2017
EU-50	S 50	Tank 300	900 TPH	None: Open Vent	-	-	July 12, 2017
EU-51	S 51	Tank 400	900 TPH	None: Open Vent	-	-	July 12, 2017
EU-52	S 52	Tank 500	900 TPH	None: Open Vent	-	-	July 12, 2017
EU-53	S 53	Tank 600	150 TPH	None: Open Vent	-	-	July 12, 2017
Soybean Oil Extraction Facility							
EU-1	S1	Tank 31; Dried bean storage	135 ton/hr*	None: Open Vent	-	-	July 12, 2017
EU-2	S2	Tank 32; Dried bean storage	135 ton/hr*	None: Open Vent	-	-	July 12, 2017
EU-3	S3	Tank 33; Dried bean storage	135 ton/hr*	None: Open Vent	-	-	July 12, 2017
EU-4	S4	Tank 34; Dried bean storage	135 ton/hr*	None: Open Vent	-	-	July 12, 2017
EU-5	S5	Tank 35; Dried bean storage	135 ton/hr*	None: Open Vent	-	-	July 12, 2017
EU-6	S6	Tank 40; Dried bean storage	135 ton/hr*	None: Open Vent	-	-	July 12, 2017
EU-7	S7	Tank 41; Dried bean storage	135 ton/hr*	None: Open Vent	-	-	July 12, 2017
EU-8	S8	Tank 42; Dried bean storage	135 ton/hr*	None: Open Vent	-	-	July 12, 2017
EU-9	S9	Tank 43; Dried bean storage	135 ton/hr*	None: Open Vent	-	-	July 12, 2017
EU-10	S10	Tank 44; Dried bean storage	135 ton/hr*	None: Open Vent	-	-	July 12, 2017
EU-45	S11	Compuweigh Two Garner Scale - (2014)	135 ton/hr*	Fabric filter - Whole bean dust collector Pneumafil 11.5-316-8	PCD 11	PM/PM10/PM2.5	July 12, 2017

Emission Unit ID	Vent and Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
EU-11B		Whole bean cleaning to include aspirator	135 ton/hr*	Fabric filter - Whole bean dust collector Pneumafil 11.5-316-8			July 12, 2017
EU-11C		Dehulling-5 primary soybean rolling/cracking rollers with 5 aspirators	135 ton/hr*	Cyclone to fabric filter – Primary dehulling cyclone - Escher Wyss Cyclone Z1-200 to fabric filter Pneumafil 11.5-316-8			July 12, 2017
EU-11D		Dehulling-2 secondary hull cracking impactors (east & west) with 4 aspirators	135 ton/hr*	Cyclone to fabric filter – Secondary dehulling cyclone - Escher Wyss Cyclone Z1-200 to fabric filter Pneumafil 11.5-316-8			July 12, 2017
EU-11E		Hull cleaning - coarse hull aspirator	135 ton/hr*	Whole bean dust collector Pneumafil 11.5-316-8			July 12, 2017
EU-11F		Hull cleaning - mids hull aspirator	135 ton/hr*	Whole bean dust collector Pneumafil 11.5-316-8			July 12, 2017
EU-12A		S12	Ground Hull Tank A	135 ton/hr*			Ground hull dust collector - fabric filter Rolfes (Model 42-RLP-10) (Alanco)
EU-12C	Grain Dust Transfer Line to Ground Hull Tanks		135 ton/hr*	July 12, 2017			
EU-13A	S13	Flakers/discharge drag (North) (A to F); soybean flaking	135 ton/hr*	Flaker aspiration cyclone Carter Day 56 HV and Fabric Filter	PCD 13A	PM/PM10/PM2.5	July 12, 2017
EU-13B		Flakers/discharge drag (South) (H to N); soybean flaking	135 ton/hr*	Flaker aspiration cyclone Carter Day 56 HV and Fabric Filter	PCD 13B	PM/PM10/PM2.5	July 12, 2017
EU-44	S44A-D	RosKamp Expander After Cooler (2014)	106 ton/hr	Four cyclones (Two each in parallel)	PCD 44A-D	PM/PM10/PM2.5	July 12, 2017
EU-14A	S14	Extractor	135 ton/hr*	Crown Mineral Oil Recovery System	PCD 14	VOC, n-hexane	July 12, 2017
EU-14B		Desolventizer toaster (2012)	135 ton/hr*				July 12, 2017
EU-14C		Miscella Tank	135 ton/hr*				July 12, 2017
EU-14D		Solvent Water Separator	135 ton/hr*				July 12, 2017
EU-14E		Small Hexane Tank	135 ton/hr*				July 12, 2017

Emission Unit ID	Vent and Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
EU-14F		Large Hexane Tank	135 ton/hr*				July 12, 2017
EU-14G		1st Stage Rising Film Evaporator (RFE)	135 ton/hr*				July 12, 2017
EU-14H		2nd Stage RFE	135 ton/hr*				July 12, 2017
EU-14I		Finished Oil Stripper	135 ton/hr*				July 12, 2017
EU-15	S15	DeSmet dryer/cooler; soybean meat drying and cooling (2003)	128 ton/hr	Dryer cooler cyclone – East (Kice CKS 132)	PCD 15	PM/PM10/PM2.5	July 12, 2017
EU-16	S16	DeSmet dryer/cooler; soybean meat drying and cooling (2003)	128 ton/hr	Dryer cooler cyclone - West (Kice CKS 132)	PCD 16	PM/PM10/PM2.5	July 12, 2017
EU-17A	S17	Meal Sifters	125 ton/hr	Meal grinding dust collector (Airlanco 188 RLP8)	PCD 17	PM/PM10/PM2.5	July 12, 2017
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	Fabric Filter	PCD 18	PM/PM10/PM2.5	July 12, 2017
EU-19	S19	South pellet/meal tank; pellet/meal storage	125 ton/hr	Fabric Filter	PCD 19	PM/PM10/PM2.5	July 12, 2017
EU-20	S20	Meal shed	125 ton/hr	None: Open Vent	-	-	July 12, 2017
EU-21A	S21	Rail Loadout - Meal	Meal loading - 135 ton/hr* Pellet loading - 250 tons/hr*	Loadout dust collector - fabric filter (Alanco 188 RLP8)	PCD 21	PM/PM10/PM2.5	July 12, 2017
EU-21B		Truck Loadout - Meal	Meal loading - 135 ton/hr* Pellet loading - 250 tons/hr*				
EU-21C		Merrick Scale - Meal	Meal loading - 135 ton/hr* Pellet loading - 250 tons/hr*				
EU-21D		Mettler Scale - Meal	Meal loading - 135 ton/hr* Pellet loading - 250 tons/hr*				

Emission Unit ID	Vent and Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
EU-22A	S22	Production tank blower; soybean hull pelletizing fines from ground hull tank	135 ton/hr*	Hull receiving cyclone dust collector (Kice HRB24-10)	PCD 22	PM/PM10/PM2.5	July 12, 2017
EU-22B		Hull Receiving Bin - Pellet production tank	135 ton/hr*				
EU-57	S57	Hull Truck Unloading	20 ton/hr	-	-	-	July 12, 2017
EU-23	S23	Pellet cooler; soybean hull pelletizing	15 ton/hr	Pellet cooler cyclone, (Model 1 HE 39), High Efficiency	PCD 23	PM/PM10/PM2.5	July 12, 2017
EU-24	S24	Meal Storage Dome #1 (2012)	93.8 ton/hr	Bin Vent with fabric Filter	PCD 24	PM/PM10/PM2.5	July 12, 2017
EU-25	S25	Meal Storage Dome #2 (2012)	93.8 ton/hr	Bin Vent with fabric Filter	PCD 25	PM/PM10/PM2.5	July 12, 2017
EU-55	S55	Meal Storage Dome #3 (2017)	93.8 ton/hr	Bin Vent with fabric Filter	PCD 55	PM/PM10/PM2.5	July 12, 2017
EU-26	S26	Meal Conveyors from Domes to bucket elevator and elevator drop with fabric filter (2012)	93.8 ton/hr	Bucket elevator fabric filter (Alanco 64 ASTM P10 STY 111)	PCD 26	PM/PM10/PM2.5	July 12, 2017
EU-58		Cooling Tower	8,000 gpm	Drift Eliminator	-	PM/PM10/PM2.5	July 12, 2017

*For Soybean Oil Extraction Facility, throughput in units of ton whole beans per hour.

Boilers and Engines

Limitations

1. **Boiler Requirements - Emission Controls** - Emissions from each temporary boiler (TB-1 and TB-2) 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 1 of 9/28/15 Permit)
2. **Boiler Requirements - Emission Controls** - Nitrogen Oxide (NO_x) emissions from each temporary boiler (TB-1 and TB-2) shall be controlled by the use of low NO_x burners and flue gas recirculation (FGR). The low NO_x burners and FGR shall be operated in accordance with the manufacturer's specifications.
(9VAC5-80-110 and Condition 2 of 9/28/15 Permit)
3. **Boiler Requirements - Restrictions** - Each temporary boiler (TB-1 and TB-2) shall be limited to a maximum rated heat capacity of 98.0 MMBtu/hr or less based on a natural gas heating value of 1,050 Btu/scf. Only one (1) of the two (2) boiler units may be operated at any given time.
(9VAC5-80-110 and Condition 3 of 9/28/15 Permit)
4. **Boiler Requirements - Fuel** - The approved fuels for each temporary boiler (TB-1 and TB-2) are natural gas and distillate oil. Distillate oil may only be used in cases where gas curtailment has taken place, in a gas supply emergency, and for periodic test firing of distillate oil. A change in the fuels may require a permit to modify and operate.
(9VAC5-80-110 and Condition 4 of 9/28/15 Permit)
5. **Boiler Requirements - Fuel Throughput** - The temporary boilers (TB-1 and TB-2), combined, shall consume no more than the following:

Natural Gas	841.65 million cubic feet per year
Distillate Oil	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 5 of 9/28/15 Permit)
6. **Boiler Requirements** - The fuels for the temporary boilers (TB-1 and TB-2) shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 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, 40CFR60.42c, and Condition 6 of 9/28/15 Permit)

7. **Boiler Requirements - Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
- The name of the fuel supplier;
 - The date on which the distillate oil was received;
 - The quantity of distillate oil delivered in the shipment;
 - A statement that the distillate oil complies with the American Society for Testing and Materials specifications (ASTMD396) for number 2 fuel oil; and
 - The sulfur content of the distillate oil (classification as Ultra low sulfur oil).
- (9VAC5-80-110, 9VAC5-50-410, 40CFR60.48c, and Condition 7 of 9/28/15 Permit)
8. **Boiler Requirements - Process Emission Limits** - Hourly emissions from the operation of each temporary boiler (TB-1 and TB-2) shall not exceed the limits specified below:

	Firing distillate oil	Firing natural gas
PM (including condensable PM)	2.3 lbs/hr	0.7 lbs/hr
PM10	0.7 lbs/hr	0.7 lbs/hr
PM2.5	0.2 lbs/hr	0.7 lbs/hr
Carbon Monoxide	3.6 lbs/hr	8.1 lbs/hr
Nitrogen Oxides (as NO ₂)	14.2 lbs/hr	9.6 lbs/hr
Volatile Organic Compounds	0.1 lbs/hr	0.5 lbs/hr

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 5, 6, 7, and 10.

(9VAC5-80-110 and Condition 8 of 9/28/15 Permit)

9. **Process Emission Limits** - Annual emissions from the operation of the temporary boilers (TB-1 and TB-2), combined, shall not exceed the limits specified below:

Particulate Matter (PM) (including condensable PM)	3.2 tons/yr
PM-10	3.2 tons/yr
PM 2.5	3.2 tons/yr
Nitrogen Oxides (as NO ₂)	42.1 tons/yr
Carbon Monoxide	35.3 tons/yr
Volatile Organic Compounds	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 5, 6, 7, and 10.

(9VAC5-80-110 and Condition 9 of 9/28/15 Permit)

10. **Boiler Requirements - Visible Emission Limit** - Visible emissions from each temporary boiler (TB-1 and TB-2) 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, 9VAC5-50-410, 40 CFR 60.43c(c), and Condition 10 of 9/28/15 Permit)
11. **Emission Controls** –Volatile organic compound (VOC) emissions from the emergency generator engine (EG-1) shall be controlled by the use of good operating practices, the use of clean burning fuels, and performing appropriate maintenance in accordance with the manufacturer recommendations. In addition, the permittee may only change those settings that are permitted by the manufacturer.
(9VAC5-80-110 and Condition 16 of the 7/12/17 PSD Permit)
12. **Emission Controls** - Emissions from the boilers (B-1 through B-4) shall be minimized by the use of clean burning fuel, good combustion practices, low NOx burners, and proper maintenance procedures. The boiler shall be provided with adequate access for inspection.
(9VAC5-80-110 and Condition 25 of the 7/12/17 PSD Permit)
13. **Fuel** - The approved fuels for the boilers (B-1 through B-4) are diesel fuel as defined in Condition 15 and natural gas. A change in the fuel shall be considered a change in the method of operation of the boilers (B-1 through B-4) and may require a new or amended permit. However, if a change in the fuel is not subject to new source review permitting requirements, this condition should not be construed to prohibit such a change.
(9VAC5-80-110 and Condition 35 of the 7/12/17 PSD Permit)
14. **Fuel** - The approved fuel for the emergency generator engine (EG-1) is diesel fuel. A change in the fuel shall be considered a change in the method of operation of the engine and may require a new or amended permit. However, if a change in the fuel is not subject to new source review permitting requirements, this condition should not be construed to prohibit such a change.
(9VAC5-80-110 and Condition 34 of the 7/12/17 PSD Permit)
15. **Fuel** - The diesel fuel used by the boilers (B1 through B4) and emergency generator engine (EG-1) shall meet the specifications below:

DIESEL FUEL which meets the ASTM D975 specification for Grades 1 or 2 S15 diesel fuel oils:

Maximum sulfur content per shipment: 0.0015%

(9VAC5-80-110, 40CFR60.42c, 9VAC5-50-410, and Condition 36 of the 7/12/17 PSD Permit)

16. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of diesel fuel as defined in Condition 15. 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 (ASTM D975) for S15 diesel fuel oils; and
 - The sulfur content of the diesel fuel.

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition 15. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9VAC5-80-110, 40CFR60.48c, 9VAC5-50-410, and Condition 37 of the 7/12/17 PSD Permit)

17. **Permanent Shutdown** – The temporary boilers (TB-1 and TB-2) shall cease operation after a reasonable shakedown period of the boilers (B-1 through B-4), not to exceed 180 days after the initial start-up of the first boiler. Reactivation of these units (TB-1 or TB-2) will be considered a physical change to the stationary source.
(9VAC5-80-110 and Condition 49 of the 7/12/17 PSD Permit)
18. **Fuel Throughput** - The boilers (B-1 through B-4) shall consume no more than 698.1×10^6 cubic feet of natural gas total, 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 50 of the 7/12/17 PSD Permit)
19. **Fuel Throughput** - The boilers (B-1 through B-4) shall consume no more than 278,979 gallons of diesel fuel total, 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 51 of the 7/12/17 PSD Permit)
20. **Emissions Limit** - Emissions from the operation of the emergency generator engine (EG-1) shall not exceed the limits specified below:

VOC	0.49 lb/hr	0.12 tons/yr
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Compliance with these emission limits may be determined as stated in Conditions 11, 14, 15, 16, and 23.
(9VAC5-80-110 and Condition 65 of the 7/12/17 PSD Permit)

21. **Boiler Emission Limits** - Emissions from the operation of each boiler (B-1, B-2, B-3 and B-4) shall not exceed the limits specified below.

	Each diesel fuel	Each natural gas	Combined (tons/yr)
PM10	0.61 lb/hr	0.20 lb/hr	3.0 tons/yr
PM2.5	0.61 lb/hr	0.20 lb/hr	3.0 tons/yr
NO _x	2.99 lb/hr	0.95 lb/hr	14.0 tons/yr
VOC	0.04 lb/hr	0.10 lb/hr	1.3 tons/yr

Annual 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 18 and 19.

(9VAC5-80-110 and Condition 70 of the 7/12/17 PSD Permit)

22. **Visible Emission Limit** - Visible emissions from each boiler (B-1 through B-4) when using diesel fuel 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 and Condition 79 of the 7/12/17 PSD Permit)

Monitoring

23. **Monitoring Devices** – The emergency generator engine (EG-1) shall be equipped with a non-resettable hour metering device to monitor the operating hours. The non-resettable hour meter used to continuously measure the hours of operation for each engine-generator set shall be observed by the owner with a frequency of not less than once each day the engine-generator set is operated. The owner shall keep a log of these observations and the reason for operation.

(9VAC5-80-110 and Condition 27 of the 7/12/17 PSD Permit)

24. **Boiler Requirements - Visible Emission Monitoring Plan for Firing Distillate Oil** - The permittee shall submit a site-specific monitoring plan, in accordance with 40 CFR Part 60, Subpart Dc, to be approved by DEQ. The monitoring plan shall be submitted between 60 and 180 days after firing distillate oil in any boiler for the first time. The permittee shall comply with the site specific monitoring plan to show compliance with the opacity limits listed in Condition 10.

(9VAC5-80-110, 9VAC5-50-410, 40 CFR 60.47c(f)(3), and Condition 11 of 9/28/15 Permit)

25. **Boiler Requirements - Annual Tune-up** – The permittee shall perform tune-ups on the boilers (B-1 through B-4, TB-1, and TB-2) in accordance with Table 3 of 40 CFR 63 Subpart DDDDD. Each tune-up shall be performed as required in 40CFR63.7515(d). The permittee shall be in compliance with this condition by the date specified in 40CFR 63.7495.

(9VAC5-80-110, 9VAC5-60-100, and Condition 13 of 9/28/15 Permit)

Recordkeeping and Reporting

26. **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:
- a. Annual hours of operation of the engine-generator set (EG-1), 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. Engine information including make, model, serial number, model year, maximum engine power (bhp), and engine displacement for the engine-generator set (EG-1).
 - c. The manufacturer's written operating instructions or procedures, including those developed by the owner/operator that are approved by the engine manufacturer for the engine-generator set (EG-1).
 - d. Records of the reasons for operation for the engine-generator set (EG-1), including, but not limited to, the date, cause of operation, cause of the emergency, the ISO-declared emergency notification, and the hours of operation.
 - e. Annual total throughput of natural gas to the Boilers (B-1, B-2, B-3, and B-4), 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.
 - f. Annual total throughput of diesel fuel to the Boilers (B-1, B-2, B-3, and B-4), 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.
 - g. Installation date and removal date for each temporary boiler replacement event (TB-1 and TB-2).
 - h. All fuel supplier certifications and semiannual fuel quality reports.
 - i. All notifications required in this permit.
 - j. Records of the 5-year and annual tune-ups, as applicable.
 - k. Records of the initial energy assessment.

- l. Monthly and annual quantity of natural gas (in million scf) consumed by the temporary boilers, combined (TB-1 and TB-2) while at the Perdue Grain and Oilseed, LLC 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.
- m. Monthly and annual quantity of distillate oil (in gallons) consumed by the temporary boilers, combined, (TB-1 and TB-2) while at the Perdue Grain and Oilseed, LLC 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.
- n. Record logs for all visible emission evaluations (VEE) and visible emission observations performed on the temporary boiler (TB-1 and TB-2) while at the Perdue Grain and Oilseed, LLC plant.

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, Condition 84 of the 7/12/17 PSD Permit, and Condition 15 of 9/28/15 Permit)

27. Notifications and Reports - The permittee shall furnish written notification to the Tidewater Regional Office of:

- a. The actual date of construction of each boiler (B-1 through B-4) within 30 calendar days after such date; and
- b. The actual first start-up date of each boiler (B-1 through B-4) within 15 calendar days after such date.
- c. The actual date for each installation of a temporary boiler (TB-1 and TB-2) within 30 calendar days after such date; and
- d. The actual first start-up date of each temporary boiler (TB-1 and TB-2) brought on-site within 15 calendar days after such date.
- e. The actual date a temporary boiler is removed from the site within 30 days after such date.
- f. The annual tune-up of each temporary boiler (TB-1 and TB-2) was tuned up in accordance with 40 CFR 63.7540.
- g. The anticipated date of any performance tests of any boiler postmarked at least 30 days prior to such date.
- h. Notification of operation during gas curtailment meeting the requirements of 40CFR63.7545(f) within 48 hours of the declaration of each period of natural gas curtailment or supply interruption, as defined in 40 CFR 63.7575.
- i. Notification of Compliance Status in accordance with 40 CFR 63.7545(e).
- j. Compliance reports in accordance with 40 CFR 63.7550.

One (1) additional copy of the written notifications above except item 27.e shall 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

(9VAC5-80-110, 9VAC5-50-50, 9VAC5-60-100, 40 CFR 60.48c, 40CFR63.7545, 40CFR63.7550, Condition 86 of the 7/12/17 PSD Permit, and Condition 17 of 9/28/15 Permit)

28. **Semiannual Fuel Quality Reports** – The permittee shall submit fuel quality reports to the Tidewater Regional Office, postmarked no later than the 30th day following the end of each semiannual period ending June 30th and December 31st. If no shipments of distillate oil and/or diesel fuel were received during the semiannual period, the fuel quality report shall consist of the dates included in the semiannual period and a statement that no distillate oil and/or diesel fuel was received during the semiannual period. If distillate oil and/or diesel fuel was received during the reporting period, the report shall include:
- a. The dates included in the semiannual period.
 - b. A copy of all fuel supplier certifications for all shipments of distillate oil and/or diesel fuel received during the reporting period, indicating the supplier, volume of shipment, sulfur content (weight percent) and date the shipment was received.
 - c. A signed statement from the owner or operator of the facility that the fuel supplier certifications represent all of the distillate oil and/or diesel fuel received during the reporting period.
 - d. One copy of the semiannual fuel report shall be submitted 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

(9VAC5-80-110, 9VAC5-50-50, 9VAC5-60-100, 40 CFR 60.48c, Condition 85 of the 7/12/17 PSD Permit, and Condition 16 of 9/28/15 Permit)

Grain Elevator Facility Requirements

Limitations

29. **Emission Controls** – Particulate emissions from Column Grain Dryers process (EU-31 and EU-32) shall be controlled by a 24 mesh 'screen airs' and cyclones on the recirculating side of the dryers. The mesh screens airs and the cyclones shall be provided with adequate access for inspection and shall be in operation when the grain dryers are operating.
(9VAC5-80-110 and Condition 23 of the 7/12/17 PSD Permit)
30. **Emission Controls** – Particulate emissions from Marine Vessel Unloading process (EU-34 and EU-56) shall be controlled by fabric filter and telescoping pneumatic pickup pipes. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when either marine vessel unloader is operating.
(9VAC5-80-110, 40 CFR 60.302(d)(3), and Condition 17 of the 7/12/17 PSD Permit)
31. **Emission Controls** – Particulate emissions from Marine Vessel Loading process (EU-35A, EU-35B, and EU-56) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when associated marine vessel loading unit is operating. The height of each loading spout or telescoping pneumatic pipe, during vessel loading operations, should be held at the position necessary to prevent as much fugitive emissions leaving the hold of the vessel as possible.
(9VAC5-80-110, 40 CFR 60.302(c)(4), and Condition 18 of the 7/12/17 PSD Permit)
32. **Emission Controls** – Particulate emissions from Rail Car Receiving/Unloading and Rail Car Loading processes (EU-38A and EU-38B) shall be controlled by fabric filter. Each 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, 40 CFR 60.302(c)(1), and Condition 19 of the 7/12/17 PSD Permit)
33. **Emission Controls** – Particulate emissions from Truck Receiving/Unloading process (EU-36 and EU-37) shall be controlled by fabric filter. 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, 40 CFR 60.302(c)(1), and Condition 20 of the 7/12/17 PSD Permit)
34. **Emission Controls** – Particulate emissions from Internal Grain Handling process (EU-42) shall be controlled using enclosed conveying systems and by fabric filter. 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, 40 CFR 60.302 (c)(2), and Condition 21 of the 7/12/17 PSD Permit)
35. **Emission Controls** – Particulate emissions from storage silos (EU-38C and EU-40B) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when the respective storage silo is operating.
(9VAC5-80-110 and Condition 22 of the 7/12/17 PSD Permit)

36. **Emission Controls** – Particulate emissions from Truck and Container Loading process (EU-33) shall be controlled by fabric filter. The fabric filter shall be provided with adequate access for inspection and shall be in operation when the associated truck and container loading is operating. (9VAC5-80-110, 40 CFR 60.302(c)(3), and Condition 24 of the 7/12/17 PSD Permit)
37. **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. (9VAC5-50-90, 9VAC5-80-110 and Condition 28.e of the 7/12/17 PSD Permit)
38. **Throughput** – The grain throughput of the Truck Receiving/Unloading process (EU-36 and EU-37) shall not exceed 1,275,000 tons per year total, 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 38 of the 7/12/17 PSD Permit)
39. **Throughput** – The grain throughput of Rail Car Receiving/Unloading process (EU-38A) shall not exceed 2,500,000 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 and Condition 39 of the 7/12/17 PSD Permit)
40. **Throughput** – The marine unloading of grain (EU-34 and EU-56) shall not exceed 2,000,000 tons per year total, 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 40 of the 7/12/17 PSD Permit)
41. **Throughput** – The grain throughput of Column Grain Dryers total (EU-31 and EU-32), shall not exceed 1,500,000 tons per year total, 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 41 of the 7/12/17 PSD Permit)
42. **Throughput** – The grain and grain products (meal) throughput for the Internal Grain Handling process (EU-42) shall not exceed 14,430,000 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 and Condition 42 of the 7/12/17 PSD Permit)

43. **Throughput** – The grain and grain products (meal) throughput for Storage Silos process (EU-38C, EU-40B, and EU-48 through EU-53) shall not exceed 7,275,000 tons per year total, 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 43 of the 7/12/17 PSD Permit)
44. **Throughput** – The grain and grain products (meal) throughput of the Rail Car Loading process (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 and Condition 44 of the 7/12/17 PSD Permit)
45. **Throughput** – The grain and grain products (meal) throughput of the Marine Loading process (EU-35A, EU-35B, and EU-56) shall not exceed 5,025,000 tons per year total, 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 45 of the 7/12/17 PSD Permit)
46. **Throughput** – The grain and grain products (meal) throughput of the Truck and Container Loading process (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 and Condition 46 of the 7/12/17 PSD Permit)
47. **Fuel** - The approved fuel for the grain dryers (EU-31 and EU-32) is natural gas. A change in the fuel shall be considered a change in the method of operation of the grain dryers and may require a new or amended permit. However, if a change in the fuel is not subject to new source review permitting requirements, this condition should not be construed to prohibit such a change.
(9VAC5-80-110 and Condition 47 of the 7/12/17 PSD Permit)
48. **Fuel Throughput** - The natural gas-fired grain dryers (EU-31 and EU-32) shall consume no more than 175×10^6 cubic feet of natural gas total, 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 48 of the 7/12/17 PSD Permit)
49. **Process Emission Limits** - Emissions from each fabric filter controlling the Truck Receiving/Unloading process (EU-36 and EU-37), Truck Loading process (EU-33), Rail Car Receiving/Unloading process (EU-38A), Rail Car Loading process (EU-38B), Marine Vessel Loading/Unloading process (EU-34, EU-35A, and EU-35B, and EU-56), storage silos (EU-38C and EU-40B), and Internal Handling process (EU-42) shall not exceed the limits specified below:

PM	0.01 gr/dscf
PM10	0.01 gr/dscf
PM2.5	0.01 gr/dscf

(9VAC5-80-110, 40 CFR 302(b), and Condition 66 of the 7/12/17 PSD Permit)

50. **Process Emission Limits** - Emissions from the exhaust of each cyclone controlling the Column Grain Dryers (EU-31 and EU-32) shall not exceed the limits specified below:

PM	1.63 lb/hr
PM10	2.21 lb/hr
PM2.5	1.40 lb/hr
NO _x	3.83 lb/hr
CO	3.22 lb/hr
VOC	0.21 lb/hr

(9VAC5-80-110 and Condition 67 of the 7/12/17 PSD Permit)

51. **Emission Limits** - Emissions from the grain elevator facility, including fugitive emissions, shall not exceed the limits specified below:

PM	63.0 tons/yr
PM10	36.2 tons/yr
PM2.5	18.6 tons/yr
CO	7.4 tons/yr
NO _x	8.8 tons/yr
VOC	0.5 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 29 through 36, 38 through 48, 52 through 56, 123, 124, and 133.e.

(9VAC5-80-110 and Condition 68 of the 7/12/17 PSD Permit)

52. **Visible Emission Limit** – - Visible emissions from each fabric filter controlling the Truck Loading (EU-33), Truck Receiving/Unloading (EU-36 and EU-37), Rail Car Loading (EU-38B), Rail Car Receiving/Unloading (EU-38A), Marine Vessel Loading/Unloading (EU-34, EU-35A, EU-35B, and EU-56), storage silos (EU-38C and EU-40B), and Internal Grain Handling Operations (EU-42) shall not exceed 0% 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, 40 CFR 60.302 (b)(2), and Condition 74 of the 7/12/17 PSD Permit)

53. **Visible Fugitive Emission Limit** –Visible fugitive emissions from the Truck Receiving/Unloading (EU-36 and EU-37), Rail Car Loading (EU-38B), Rail Car Receiving/Unloading (EU-38A) operations 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, 40 CFR 60.302 (c)(1), and Condition 75 of the 7/12/17 PSD Permit)

54. **Visible Fugitive Emission Limit** –Visible fugitive emissions from the Internal Grain Handling Operations (EU-42) and Column Grain Dryers process (EU-31 and EU-32) shall not exceed 0% 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, 40 CFR 60.302(c)(2), and Condition 76 of the 7/12/17 PSD Permit)
55. **Visible Fugitive Emission Limit** –Visible fugitive emissions from the Truck Loading (EU-33) operations shall not exceed 10% 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, 40 CFR 60.302 (c)(3), and Condition 77 of the 7/12/17 PSD Permit)
56. **Visible Fugitive Emission Limit** –Visible fugitive emissions from the Marine Vessel Loading (EU-35A, EU-35B, and EU-56) operations 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, 40 CFR 60.302 (c)(4), and Condition 78 of the 7/12/17 PSD Permit)

Monitoring

57. **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-42	Internal Grain Handling Operations	Fabric Filter	S42	Visible Emissions	Daily	Yes/No

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

58. **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))
59. **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))
60. **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 and 40 CFR 64.7 (c))

61. **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))
62. **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))
63. **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))
64. **CAM-Affected Units - Monitoring** - If the number of exceedances or excursions exceeds 9 excursions 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))

Recordkeeping and Reporting

65. **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:
- a. Annual total throughput of natural gas to the Column Grain Dryers (EU-31 and EU-32), 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 total throughput of grain and grain products (meal) through the Truck Receiving/Unloading process (EU-36 and EU-37), 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. Annual throughput of grain and grain products (meal) through the Rail Car Receiving/Unloading process (EU-38A), 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. Annual total throughput of grain through marine unloading (EU-34 and EU-56), 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.
 - e. Annual throughput of grain and grain products (meal) through the Rail Car Loading process (EU-38B), 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.
 - f. Annual total throughput of grain and grain products (meal) through marine loading (EU-35A, EU-35B, and EU-56), 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.

- g. Annual total throughput of grain through the Column Grain Dryer process (EU-31 and EU-32), 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.
- h. Annual throughput of grain and grain products (meal) through the Internal Grain Handling process (EU-42), 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. Internal Grain Handling throughput is calculated as the sum of the individual throughputs from records required in b, c, d, e, f, and j of Condition 65 and twice the throughput of 65.g.
- i. Annual throughput of grain and grain products (meal) through the Storage Silo process (EU-38C, EU-40B, and EU-48 through EU-53), 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. Storage Silo process throughput is calculated as the sum of the individual throughputs from records required in b, c, d, and g of Condition 65.
- j. Annual throughput of grain and grain products (meal) through the Truck Loading process (EU-33), 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.

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

(9VAC5-80-110 and Condition 84 of the 7/12/17 PSD Permit)

- 66. **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))
- 67. **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 64 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) and (2))

68. **CAM Reporting** – The permittee shall submit written CAM reports as part of the Title V semi-annual monitoring reports required by Condition 145 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))

Soybean Oil Plant Requirements

Limitations

69. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Expander and the Expander After-Cooler process (EU-44) shall be controlled by high efficiency cyclones. Each cyclone shall be provided with adequate access for inspection and shall be in operation when the expander or the Expander After-Cooler is operating.
(9VAC5-80-110 and Condition 1 of the 7/12/17 PSD Permit)
70. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Compuweigh two garner scale (EU-45), Bean Prep Cleaning process (EU-11B), Bean Prep Cracking/Dehull process (EU-11C and EU-11D), and Bean Prep Hull Cleaning process (EU-11E and EU-11F) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when any of the units are operating.
(9VAC5-80-110 and Condition 2 of the 7/12/17 PSD Permit)
71. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Bean Prep Flaking process (EU-13A and EU-13B) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when either unit is operating.
(9VAC5-80-110 and Condition 3 of the 7/12/17 PSD Permit)

72. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Meal Grinding and Shifting process (EU-17A through EU-17E) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when any of the units are operating.
(9VAC5-80-110 and Condition 4 of the 7/12/17 PSD Permit)
73. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Hull Grinder and Product Tank process (EU-12A and EU-12C) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when any of the units are operating.
(9VAC5-80-110 and Condition 5 of the 7/12/17 PSD Permit)
74. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Ground Hull Transfer and Hopper process (EU-22A and EU-22B) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when any of the units are operating.
(9VAC5-80-110 and Condition 6 of the 7/12/17 PSD Permit)
75. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Pellet Cooler process (EU-23) shall be controlled by a high efficiency cyclone. The cyclone shall be provided with adequate access for inspection and shall be in operation when the pellet cooler is operating.
(9VAC5-80-110 and Condition 7 of the 7/12/17 PSD Permit)
76. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Load Out process (EU-21A through EU-21D) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when any of the units are operating.
(9VAC5-80-110 and Condition 8 of the 7/12/17 PSD Permit)
77. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Pellet Storage Tank process (EU-19) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when the Pellet storage tank is operating.
(9VAC5-80-110 and Condition 9 of the 7/12/17 PSD Permit)
78. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Dryer/Cooler process (EU-15 and EU-16) shall be controlled by cyclones. Each cyclones shall be provided with adequate access for inspection and shall be in operation when either the dryer or cooler is operating.
(9VAC5-80-110 and Condition 10 of the 7/12/17 PSD Permit)
79. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Meal Dome process [soybean meal storage domes (EU-24, EU-25, and EU-55) and the associated conveyors and bucket elevator (EU-26) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when the associated unit is in operation.
(9VAC5-80-110 and Condition 11 of the 7/12/17 PSD Permit)

80. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the meal storage (large shed) (EU-20) shall be controlled by the addition of soybean gum to the meal prior to transfer to the shed.
(9VAC5-80-110 and Condition 12 of the 7/12/17 PSD Permit)
81. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Meal Storage Tank process (EU-18) shall be controlled by fabric filter. Each fabric filter shall be provided with adequate access for inspection and shall be in operation when the meal storage tank is operating.
(9VAC5-80-110 and Condition 13 of the 7/12/17 PSD Permit)
82. **Emission Controls** – Particulate Matter (PM, PM10, and PM2.5) emissions from the Cooling Tower process (EU-58) shall be controlled by a drift eliminator designed with a drift rate of 0.02 percent of the circulated water flow. The drift eliminator shall be provided with adequate access for inspection and shall be in operation when the water cooling tower is operating.
(9VAC5-80-110 and Condition 14 of the 7/12/17 PSD Permit)
83. **Emission Controls: Equipment Leaks** - The permittee shall implement a daily Leak Detection and Repair (LDAR) program for detecting leaking components in the Soybean Oil Extraction Facility piping components to minimize the fugitive emissions of Volatile Organic Compounds (VOC). Daily audio/visual/olfactory (AVO) inspection observations will be recorded in writing and will be signed and dated by the person who conducted the inspection/reading. The first attempt to repair any component found to be leaking during an AVO inspection shall be made within 5 days. The leaking component shall be repaired within 15 days of discovery. The permittee shall maintain a list of difficult to repair components, which when leaking, the repair requires facility shutdown or cannot otherwise be completed within 15 days of discovery. Documentation justifying the inclusion of a component on the list shall be included. Records of the daily AVO inspection results, repair attempts, and the list of long-term leaking components and reason for each delay shall be maintained on site. A LDAR program plan shall be submitted to the Tidewater Regional Office for review no later than 60 days after the issuance of this permit.
(9VAC5-80-110 and Condition 15 of the 7/12/17 PSD Permit)
84. **Production** - The production of pellets from the pellet cooler (EU-23) shall not exceed 98,550 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 29 of the 7/12/17 PSD Permit)
85. **Processing** – Prior to the particulate control devices required in Conditions 29 through 37.a, 69, 70, and 72 through 82 beginning operation, except the control devices on EU-55 and EU-56 that must be operational at initial start-up of the respective emission unit, the Soybean Oil Extraction Facility shall process no more than 792,865 tons of whole soybeans per year, measured as throughput of the Compuweigh two garner scale (EU-45) and 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 30 of the 7/12/17 PSD Permit)

86. **Processing** - After the final particulate control device required in Conditions 29 through 37.a, 69, 70, and 72 through 82 begins operation, except the control devices on EU-55 and EU-56 that must be operational at initial start-up of the respective emission unit, the Soybean Oil Extraction Facility shall process no more than 1,095,000 tons of whole soybeans per year, measured as throughput of the Compuweigh two garner scale (EU-45) and 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 31 of the 7/12/17 PSD Permit)
87. **Processing** - The hull truck unloading unit (EU-57) shall process no more than 32,850 tons of hulls 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 32 of the 7/12/17 PSD Permit)
88. **Solvent Loss Ratio** – The solvent loss ratio (SLR) of the Soybean Oil Extraction Facility shall not exceed 0.18 gallons solvent/ton of beans processed. Upon startup of the new extractor the SLR shall not exceed 0.152 gallons solvent/ton of beans processed. The SLR limit is effective during all operational periods including startup, shutdown, and malfunction. Solvent loss ratio is calculated using the following equation:

$$\frac{\sum_{i=1}^{12} \text{Total Solvent Lost (gallons)}}{\sum_{i=1}^{12} \text{Total Weight of Beans Processed (tons)}} = \text{SLR}$$

Where:

Total Solvent Lost is calculated pursuant to 40CFR63.2853 except all periods of operation are considered.

Total weight of whole beans processed is calculated pursuant to Condition 85 or 86, as applicable.

The SLR shall be calculated monthly as the ratio of total solvent lost and total weight of beans processed, each calculated by adding the total from the most recently completed calendar month to the individual monthly totals for the preceding 11 calendar months.
(9VAC5-80-110 and Condition 33 of the 7/12/17 PSD Permit)

89. **Process Emission Limits** - Emissions from the operation of the expander and expander after-cooler unit (EU-44) shall not exceed the limits specified below:
- | | |
|-------|------------|
| PM | 0.22 lb/hr |
| PM10 | 0.30 lb/hr |
| PM2.5 | 0.24 lb/hr |
- (9VAC5-80-110 and Condition 52 of the 7/12/17 PSD Permit)

90. **Process Emission Limits** - Emissions from the operation of the dryer/cooler (EU-15 and EU-16) total shall not exceed the limits specified below:
- | | |
|-------|------------|
| PM | 1.2 lb/hr |
| PM10 | 1.0 lb/hr |
| PM2.5 | 0.88 lb/hr |
- (9VAC5-80-110 and Condition 53 of the 7/12/17 PSD Permit)
91. **Process Emission Limits** - Emissions from each fabric filter controlling the operation of the Meal Dome process (under dome conveyors and bucket elevator (EU-26) and soybean meal storage domes (EU-24, EU-25, and EU-55)) shall not exceed the limits specified below:
- | | |
|-------|----------------|
| PM | 0.0025 gr/dscf |
| PM10 | 0.0025 gr/dscf |
| PM2.5 | 0.0025 gr/dscf |
- (9VAC5-80-110 and Condition 54 of the 7/12/17 PSD Permit)
92. **Process Emission Limits** - Emissions from the operation of the Bean Prep Flaking process (EU-13A and EU-13B) shall not exceed the limits specified below:
- | | |
|-------|------------|
| PM | 0.25 lb/hr |
| PM10 | 0.78 lb/hr |
| PM2.5 | 0.78 lb/hr |
- (9VAC5-80-110 and Condition 55 of the 7/12/17 PSD Permit)
93. **Process Emission Limits** - Emissions from the operation of the Meal Grinding and Shifting process (EU-17A through EU-17E) shall not exceed the limits specified below:
- | | |
|-------|-----------|
| PM | 4.6 lb/hr |
| PM10 | 4.6 lb/hr |
| PM2.5 | 4.6 lb/hr |
- (9VAC5-80-110 and Condition 56 of the 7/12/17 PSD Permit)
94. **Process Emission Limits** - Emissions from the operation of the meal storage tank (EU-18) shall not exceed the limits specified below:
- | | |
|-------|------------|
| PM | 0.37 lb/hr |
| PM10 | 0.37 lb/hr |
| PM2.5 | 0.37 lb/hr |
- (9VAC5-80-110 and Condition 57 of the 7/12/17 PSD Permit)
95. **Process Emission Limits** - Emissions from the operation of the Hull Grinder and Product Tank process (EU-12A and EU-12C) shall not exceed the limits specified below:
- | | |
|-------|-----------|
| PM | 2.7 lb/hr |
| PM10 | 2.7 lb/hr |
| PM2.5 | 2.7 lb/hr |
- (9VAC5-80-110 and Condition 58 of the 7/12/17 PSD Permit)

96. **Process Emission Limits** - Emissions from the operation of the Ground Hull Transfer and Hopper process (EU-22A and EU-22B) shall not exceed the limits specified below:
- | | |
|-------|------------|
| PM | 0.68 lb/hr |
| PM10 | 0.68 lb/hr |
| PM2.5 | 0.68 lb/hr |
- (9VAC5-80-110 and Condition 59 of the 7/12/17 PSD Permit)
97. **Process Emission Limits** - Emissions from the operation of the pellet cooler unit (EU-23) shall not exceed the limits specified below:
- | | |
|-------|------------|
| PM | 0.45 lb/hr |
| PM10 | 0.95 lb/hr |
| PM2.5 | 0.72 lb/hr |
- (9VAC5-80-110 and Condition 60 of the 7/12/17 PSD Permit)
98. **Process Emission Limits** - Emissions from the operation of the Bean Prep Cleaning process (EU-11B) shall not exceed the limits specified below:
- | | |
|-------|------------|
| PM | 0.51 lb/hr |
| PM10 | 0.51 lb/hr |
| PM2.5 | 0.51 lb/hr |
- (9VAC5-80-110 and Condition 61 of the 7/12/17 PSD Permit)
99. **Process Emission Limits** - Emissions from the operation of the Bean Prep Cracking/Dehull process (EU-11C and EU-11D) shall not exceed the limits specified below:
- | | |
|-------|-----------|
| PM | 2.4 lb/hr |
| PM10 | 2.4 lb/hr |
| PM2.5 | 2.4 lb/hr |
- (9VAC5-80-110 and Condition 62 of the 7/12/17 PSD Permit)
100. **Process Emission Limits** - Emissions from the operation of the Bean Prep Hull Cleaning process (EU-11E and EU-11F) shall not exceed the limits specified below:
- | | |
|-------|-----------|
| PM | 2.4 lb/hr |
| PM10 | 2.4 lb/hr |
| PM2.5 | 2.4 lb/hr |
- (9VAC5-80-110 and Condition 63 of the 7/12/17 PSD Permit)
101. **Process Emission Limits** - Emissions from the exhaust of each fabric filter controlling the loadout process (EU-21A through EU-21D) during the loading of meal shall not exceed the limits specified below:
- | | |
|-------|------------|
| PM | 0.33 lb/hr |
| PM10 | 0.33 lb/hr |
| PM2.5 | 0.33 lb/hr |
- (9VAC5-80-110 and Condition 64 of the 7/12/17 PSD Permit)

102. **Emission Limits** - Emissions from the soybean oil extraction facility, including fugitive emissions, shall not exceed the limits specified below:

PM	146.8 tons/yr
PM10	92.3 tons/yr
PM2.5	74.3 tons/yr
VOC	471.0 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 69 through 88, 103, 123, 124, and 133.
 (9VAC5-80-110 and Condition 69 of the 7/12/17 PSD Permit)

103. **Visible Emission Limit** - Visible emissions from the meal storage (meal shed) (EU-20) shall not exceed 5% opacity, except for one six-minute period in any one hour of not more than 10% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
 (9VAC5-80-110 and Condition 73 of the 7/12/17 PSD Permit)

104. **Soybean Oil Plant Requirements - MACT GGGG Emissions Requirements - Solvent Loss Factor** - The solvent loss factor shall not exceed 0.2 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, 9VAC5-60-100, and 40 CFR 63.2840)

105. **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, and 40 CFR 63.2840)

106. **Soybean Oil Plant Requirements - MACT GGGG Compliance Requirements** - The permittee shall comply with the hazardous pollutant emissions standards by adhering to the following requirements:
- Submit the necessary notifications, as applicable, in accordance with 40 CFR 63.2860.
 - Develop and implement a plan for demonstrating compliance in accordance with 40 CFR 63.2851.
 - Develop a written startup, shutdown and malfunction (SSM) plan in accordance with the provisions in 40 CFR 63.2852.
 - Maintain all necessary records you have used to demonstrate compliance with the regulation in accordance with 40 CFR 63.2862.
 - Submit the reports as required by the regulations at 40 CFR 63.2861(a), (c), and (d).
 - 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, and 40 CFR 63.2850)
107. **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:
- The name and address of the owner or operator.
 - The physical address of the vegetable oil production process.
 - A detailed description of all methods of measurement used to determine your solvent losses, HAP content of solvent, and the tons of soybean processed.
 - When each measurement will be made.
 - 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.
 - Example logs of how data will be recorded.
 - A plan to ensure that the data continue to meet compliance demonstration needs.
- (9VAC5-80-110, 9VAC5-60-100, and 40 CFR 63.2851)

Monitoring

108. **CAM-Affected Units - Monitoring** - 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-11B	Whole bean cleaning to include aspirator	Fabric Filter	S11	Visible Emissions	Daily	Yes/No
EU-11C	De-hulling Rollers	Cyclone/Fabric Filter	S11	Visible Emissions	Daily	Yes/No
EU-11D	De-hulling Impactors	Cyclone/Fabric Filter	S11	Visible Emissions	Daily	Yes/No
EU-11E&F	Hull cleaning – coarse/mids hull aspirator	Fabric Filter	S11	Visible Emissions	Daily	Yes/No
EU-12A&C	Hull grinding	Dust collector	S12	Visible Emissions	Daily	Yes/No
EU-15 & 16	Dryer/Cooler	Cyclones	S15/S16	Visible Emissions	Daily	Yes/No
EU-17A-E	Meal grinding and sifting	Dust collector	S17	Visible Emissions	Daily	Yes/No

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

109. **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))

110. **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))

111. **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 and 40 CFR 64.7 (c))

112. **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))
113. **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))
114. **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))
115. **CAM-Affected Units - Monitoring** - If the number of exceedances or excursions exceeds 9 excursions 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))

Recordkeeping and Reporting

116. **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:
- a. Annual throughput in tons of whole beans processed at the soybean oil extraction plant measured as throughput of the two garner scale (EU-45), 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 of pellets (in tons) through the Pellet Cooler process (EU-23), 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. Annual throughput of hulls (in tons) through Hull Truck Unloading process (EU-57), 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. Records of the daily LDAR program required in Condition 83.
 - e. Monthly calculations of the SLR to demonstrate compliance with the requirements of Condition 88, including all supporting information for such calculations.

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

(9VAC5-80-110 and Condition 84 of the 7/12/17 PSD Permit)

117. **Notifications** - The permittee shall furnish written notification to the Tidewater Regional Office of:
- a. The actual date on which construction of the new extractor (EU-14A) commenced within 30 days after such date.
 - b. The actual date on which startup of the new extractor (EU-14A) commenced within 30 days after such date.
 - c. The actual date on which start-up of each particulate control device required in this permit (Conditions 29 through 37.a and 69 through 82) within 30 days after such date or 30 days after issuance of this permit, whichever is later.

(9VAC5-80-110 and Condition 86 of the 7/12/17 PSD Permit)

118. **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:
- a. The first annual compliance certification is due 12 calendar months after the initial notification of compliance status. Recurring compliance certifications shall be submitted annually.
 - b. 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.
 - c. 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.
 - d. 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, and 40 CFR 63.2861)
119. **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. 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:
 - i. The 12 operating months rolling sum of the actual solvent loss in gallons;
 - ii. The weighted average volume fraction of HAP in extraction solvent received for the previous 12 operating months;
 - iii. The 12 operating months rolling sum of soybeans processed at the facility;
 - iv. A determination of the compliance ratio;
 - v. 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:

- i. A description and date of the SSM event, its duration, and reason it qualifies as an initial startup or malfunction;
 - ii. An estimate of the solvent loss in gallons for the duration of the initial startup or malfunction period with supporting documentation;
 - iii. 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 40 CFR 63.2863)

120. **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))

121. **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) and (2))

122. **CAM Reporting** – The permittee shall submit written CAM reports as part of the Title V semi-annual monitoring reports required by Condition 145 of this permit to the 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))

Facility-wide Conditions

Limitations

123. **Visible Emission Limit** - Visible emissions from the exhaust of all fabric filters in operation at the facility shall not exceed 5% opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).
(9VAC5-80-110, 9VAC5-50-80, and Condition 71 of 7/12/17 PSD Permit)
124. **Visible Emission Limit** - Visible emissions from the exhaust of all cyclones in operation at the facility shall not exceed 5% opacity, except for one six-minute period in any one hour of not more than 10 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).
(9VAC5-80-110, 9VAC5-50-80, and Condition 72 of 7/12/17 PSD Permit)
125. **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.
(9VAC5-80-110 and 9 VAC 5-50-20 F)
126. **Fugitive Dust Emission Controls** – Fugitive dust emission controls shall include the following, or equivalent, as approved by DEQ:
- a. 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 particulates from these materials.
 - b. 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 times when in motion.
 - c. Prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
 - d. Dust from material handling, and load-outs, shall be controlled by wet suppression or equivalent.
- (9VAC5-80-110, 9VAC5-50-90, and Condition 28 of the 7/12/17 PSD Permit)
127. **Visible Emission Limit** - Visible emissions from storage silos not otherwise limited (EU-1 through EU-10 and EU-48 through EU-53) and the emergency generator engine (EG-1) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% 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 and 9VAC5-50-80)

Monitoring and Testing

128. **Monitoring Devices** - Each fabric filter shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. 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 and Condition 26 of the 7/12/17 PSD Permit)
129. **Emissions Testing** - The facility 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.
(9VAC5-80-110, 9VAC5-50-30, Condition 80 of the 7/12/17 PSD Permit)
130. **Monitoring Device Observation** – To ensure good performance, each 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, if needed, any corrective action taken, (including, but not limited to, a brief description and date of completion of corrective action).
(9VAC5-80-110 and Condition 81 of the 7/12/17 PSD Permit)
131. **Monitoring Device Observation** – An annual internal inspection shall be conducted on each cyclone in operation at the facility by the permittee to ensure structural integrity.
(9VAC5-80-110 and Condition 82 of the 7/12/17 PSD Permit)
132. **Visible Emission Observations** – The permittee shall observe the emission units listed in Conditions 22, 52 through 56, 103, 123, 124, and 127 for a minimum of least six (6) minutes at least once per week (Monday - Sunday) during daylight hours for visible emissions. If visible emissions are noted from a particular emission unit, operational adjustments or maintenance shall be performed on the associated units 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 the applicable value in the following list, the VEE shall continue for one (1) hour to determine compliance with the respective opacity limit:
- a. Conditions 52 and 54, the value is 0%;
 - b. Conditions 53, 103, 123, and 124, the value is 5%;
 - c. Conditions 22 and 55, the value is 10%;
 - d. Conditions 56 and 127, the value is 20%.

If compliance is not demonstrated by this VEE, timely corrective action shall be taken to bring the unit 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 83 of the 7/12/17 PSD Permit)

Recordkeeping and Reporting

133. **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:
- a. Results of all stack tests, visible emission evaluations and performance evaluations.
 - b. Scheduled and unscheduled maintenance and operator training.
 - c. Visible emission monitoring records required in Condition 132.
 - d. Operation and control device monitoring records for pollution control technology as required in Conditions 130 and 131.
 - e. Monthly emission calculations using calculation methods approved by the Tidewater Regional Office to verify compliance with each limitation in Conditions 20, 21, 51, and 102.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
 (9VAC5-80-110 and Condition 84 of the 7/12/17 PSD Permit)

Insignificant Emission Units

134. **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)
	Weld Shop	9VAC5-80-720B	PM, PM10, PM2.5	

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.

Permit Shield & Inapplicable Requirements

135. **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)

General Conditions

136. **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)
137. **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)
138. **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)
139. **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)

140. **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)
141. **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)
142. **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)
143. **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)
144. **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)
145. **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:
 - i. Exceedance of emissions limitations or operational restrictions;
 - ii. 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,
 - iii. 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)

146. **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)

147. **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 145 of this permit.

(9VAC5-80-110 F.2 and 9VAC5-80-250)

148. **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)
149. **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)
150. **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)
151. **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)
152. **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)
153. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9VAC5-80-110 G.5)

154. **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)
155. **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)
156. **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)
157. **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)
158. **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)

159. **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)

160. **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)

161. **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)

162. **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)
163. **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)
164. **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)
165. **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)
166. **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)
167. **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)
168. **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)

169. **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)
170. **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)
171. **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)