

SIGNIFICANT PERMIT REVISION DESCRIPTION

PFFJ, LLC., permitted their feed mill operations through Operating Permit # 36632. The concentrated animal feeding operations (CAFO) and other onsite equipment were not included in operating permit # 36632. This Class II Significant Revision is being issued to PFFJ, LLC., the Permittee, for the operation of the CAFO and for the addition of the following equipment.

Three diesel-fired generators of capacities 448 hp, 224 hp, and 224 hp.

ATTACHMENT "B": SPECIAL CONDITIONS Addenda (Significant Revision #47339) to Operating Permit #36632 for PFFJ, Inc.

The following changes shall be made to Operating Permit # 36632:

Condition I.A.6 is hereby added to Attachment "B" of Operating Permit # 36632.

II. FACILITY WIDE REQUIREMENTS

A. Facility Wide Requirements

6. Odor and Dust Management Plan [A.A.C. R18-2-306.A.2]

The Permittee shall operate in accordance with Attachment "D" to control odor and dust emissions at the facility.

Section VII is hereby added to Attachment "B" of Operating Permit # 36632.

VII. CONCENTRATED ANIMAL FEEDING OPERATION (CAFO)

A. Applicability

This Section applies to the CAFO.

B. Particulate Matter (PM) Emissions

1. Emissions Limitations and Standards

a. The Permittee shall not allow or permit the emission of particulate matter into the atmosphere in any one hour from the affected source in total quantities in excess of the amount calculated by the following equations:

- i. For process sources having a process weight rate of 30 tons per hour or less, the maximum allowable emissions shall be determined by the following equation:

$$E = 4.1 P^{0.67}$$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour

P = the process weight rate in tons-mass per hour

- ii. For process sources having a process weight rate greater than of 30 tons per hour, the maximum allowable emissions shall be determined by the following equation:

$$E = 55.0 P^{0.11} - 40$$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour

P = the process weight rate in tons-mass per hour

[A.A.C. R18-2-730.A.1]

2. For purposes of this Section, the total process weight from all similar units employing a similar type process shall be used in determining the maximum allowable emission of particulate matter. [A.A.C. R18-2-730.B]

3. Permit Shield [A.A.C. R18-2-325]

Compliance with **Condition VII.B** shall be deemed compliance with A.A.C. R18-2-730.A.1.

C. Opacity

1. Emissions Limitations and Standards

a. The Permittee shall not cause, allow or permit the opacity of any plume or effluent to exceed 20 percent. [A.A.C. R18-2-702.B.3]

b. If the presence of uncombined water is the only reason for an exceedance of any visible emissions, the exceedance shall not constitute a violation of the applicable opacity limit. [A.A.C. R18-2-702.C]

2. Monitoring, Reporting, and Recordkeeping

a. A certified EPA Reference Method 9 observer shall conduct a monthly survey of visible emissions. If the opacity of the emissions observed appears to exceed the standard, the observer shall conduct a certified EPA Reference Method 9 observation. The Permittee shall keep records

of the initial survey and any EPA Reference Method 9 observations performed. These records shall include the emission point observed, location of observer, name of observer, date and time of observation, and the results of the observation. [A.A.C. R18-2-306.A.3.c]

- b. If the observation shows a Method 9 opacity reading in excess of the standard, the Permittee shall initiate appropriate corrective action to reduce the opacity below the standard. The Permittee shall keep a record of the corrective action performed. [A.A.C. R18-2-306.A.3.c]

- 3. Permit Shield [A.A.C. R18-2-325]

Compliance with this Part shall be deemed compliance with A.A.C. R18-2-702.B and -702.C.

D. Gaseous Emissions

- 1. Operational Limitations

- a. Materials including solvents or other volatile compounds, paints, acids, alkalies, pesticides, fertilizers and manure shall be processed, stored, used and transported in such a manner and by such means that they will not evaporate, leak, escape or be otherwise discharged into the ambient air so as to cause or contribute to air pollution. Where means are available to reduce effectively the contribution to air pollution from evaporation, leakage or discharge, the installation and use of such control methods, devices, or equipment shall be mandatory. [A.A.C. R18-2-730.F]

- b. Where a stack, vent or other outlet is at such a level that fumes, gas mist, odor, smoke, vapor or any combination thereof constituting air pollution is discharged to adjoining property, the Director may require the installation of abatement equipment or the alteration of such stack, vent, or other outlet by the owner or operator thereof to a degree that will adequately dilute, reduce or eliminate the discharge of air pollution to adjoining property. [A.A.C. R18-2-730.G]

- 2. Emissions Limitations and Standards

The Permittee shall not emit gaseous or odorous materials from equipment, operations or premises under his control in such quantities or concentrations as to cause air pollution. [A.A.C. R18-2-730.D]

- 3. Permit Shield [A.A.C. R18-2-325]

Compliance with this Part shall be deemed compliance with A.A.C. R18-2-730.D, -730.F, and -730.G.

E. Hydrogen Sulfide Emissions

1. Emissions Limitations and Standards [A.A.C. R18-2-730.H]

The Permittee shall not allow hydrogen sulfide to be emitted from the affected source in such a manner and amount that the concentration of such emissions into the ambient air at any occupied place beyond the premises on which the source is located exceeds 0.03 parts per million by volume for any average period of 30 minutes or more.

2. Monitoring Requirements

The Permittee shall conduct hydrogen sulfide measurements at the facility fence-line using Jerome Hydrogen Sulfide Analysers Model 631-X once per permit term, to demonstrate compliance with the hydrogen sulfide standard in Condition VII.E.1.

3. Permit Shield [A.A.C. R18-2-325]

Compliance with this Part shall be deemed compliance with A.A.C. R18-2-730.H.

Section VIII is hereby added to Attachment "B" of Operating Permit # 36632.

VIII. INTERNAL COMBUSTION ENGINES SUBJECT TO NON-NSPS REQUIREMENTS

A. Applicability

This Section applies to internal combustion engines marked as "N" in NSPS column in Attachment "C".

B. Operating Limitations [Material permit conditions are indicated by underline and italics]

1. *The Permittee shall not operate each internal combustion engines for more than the hours per year specified in Attachment "C", on a rolling twelve month total.*
[A.A.C. R18-2-306.01 and 331.A.3.a]

2. Fuel Limitations

The Permittee shall only fire low sulfur diesel (less than 0.9 percent by weight of sulfur) fuel in the internal combustion engines. [A.A.C. R18-2-719.H]

3. Monitoring and Recordkeeping [A.A.C. R18-2-306.A.3.c]

The Permittee shall keep records of monthly totals of the hours of operation of each internal combustion engine. At the end of each month, the Permittee shall calculate and record a rolling 12-month total of the hours of operation.

4. Permit Shield [A.A.C. R18-2-325]

Compliance with **Condition VIII.B** shall be deemed compliance with A.A.C. R18-2-719.H.

C. Particulate Matter (PM) Emissions

1. Emissions Limitations and Standards [A.A.C. R18-2-719.C.1]

The Permittee shall not cause, allow or permit the emission of particulate matter, caused by combustion of fuel, from any stationary rotating machinery into the atmosphere in excess of the amounts calculated by the following equation:

$$E = 1.02 Q^{0.769}$$

Where

E = the maximum allowable particulate emission rate in pounds-mass per hour

Q = the heat input in million Btu per hour

2. For purposes of this Section, the heat input shall be the aggregate heat content of all fuels whose products of combustion pass through a stack or other outlet. The total heat input of all operating fuel-burning units on a plant or premises shall be used for determining the maximum allowable amount of particulate matter which may be emitted. [A.A.C. R18-2-719.B]

3. Monitoring, Reporting, and Recordkeeping [A.A.C. R18-2-306.A.3.c]

The Permittee shall keep records of fuel supplier certifications. The certification shall contain information regarding the name of fuel supplier and the heating value of the fuel. These records shall be made available to ADEQ upon request.

4. Permit Shield [A.A.C. R18-2-325]

Compliance with **Condition VIII.C** shall be deemed compliance with A.A.C. R18-2-719.C.1.

D. Opacity

1. Emission Limitations and Standards

- a. The Permittee shall not cause, allow or permit to be emitted into the atmosphere from any stationary rotating machinery, smoke for any period greater than 10 consecutive seconds which exceeds 40% opacity. [A.A.C. R18-2-719.E]
- b. Visible emissions when starting cold equipment shall be exempt from this requirement for the first 10 minutes. [A.A.C. R18-2-719.E]

2. Monitoring, Reporting, and Recordkeeping [A.A.C. R18-2-306.A.3.c]

- a. A certified EPA Reference Method 9 observer shall conduct a monthly survey of visible emissions emanating from the stack of the IC engines if in operation. If the opacity of the emissions observed appears to exceed the standard, the observer shall conduct a certified EPA Reference Method 9 observation. The Permittee shall keep records of the initial survey and any EPA Reference Method 9 observations performed. These records shall include the emission point observed, name of observer, date and time of observation, and the results of the observation.
- b. If the observation shows a Method 9 opacity reading in excess of 40%, the Permittee shall report this to ADEQ as excess emission and initiate appropriate corrective action to reduce the opacity below 40%. The Permittee shall keep a record of the corrective action performed.

4. Permit Shield [A.A.C. R18-2-325]

Compliance with **Condition VIII.D** shall be deemed compliance with A.A.C. R18-2-719.E.

E. Sulfur Dioxide Emissions

1. Emission Limitations and Standards

The Permittee shall not emit or cause to emit more than 1.0 pound of sulfur dioxide per million Btu heat input when low sulfur (less than 0.9 percent by weight of sulfur) fuel is fired. [A.A.C. R18-2-719.F]

2. Monitoring, Reporting, and Recordkeeping

- a. The Permittee shall keep records of fuel supplier certifications. The certification shall contain information regarding the name of fuel supplier, lower heating value of the fuel, the sulfur content in the fuel, and the method used to determine the sulfur content of the fuel. These records shall be made available to ADEQ upon request.

[A.A.C. R18-2-306.A.3.c and -719.I]

- b. The Permittee shall report to the Director any daily period during which the sulfur content of the fuel being fired in the machine exceeds 0.8%.

[A.A.C. R18-2-719.J]

3. Permit Shield

[A.A.C. R18-2-325]

Compliance with **Condition VIII.E** shall be deemed compliance with A.A.C. R18-2-719.F, A.A.C. R18-2-719.I, and A.A.C. R18-2-719.J.

Section IX is hereby added to Attachment "B" of Operating Permit # 36632.

IX. COMPRESSION IGNITION ENGINES SUBJECT TO NSPS REQUIREMENTS

A. Applicability

This Section applies to compression ignition engines marked as "Y" in NSPS column in Attachment "C".

B. General Requirements

1. Operating Requirements

- a. The Permittee shall operate and maintain the engine according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer. A copy of the instructions or procedures shall be kept onsite and made available to ADEQ upon request.

[40 CFR 60.4211(a) and A.A.C. R18-2-306.A.3]

- b. The Permittee shall only change those engine settings that are permitted by the manufacturer.

[40 CFR 60.4211(a)]

- c. The Permittee shall meet the requirements of 40 CFR Parts 89, 94, or 1068, as they apply.

[40 CFR 60.4211(a)]

- d. The Permittee shall operate and maintain the internal combustion engine according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer over the entire life of the engine.

[40 CFR 60.4206]

e. Fuel Requirements

i. After October 1, 2007, the Permittee shall use diesel fuel in the engines that meets the following requirements of 40 CFR 80.510(a):

(a). Sulfur content: 500 parts per million (ppm) maximum; and

(b). A minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(a)]

ii. After October 1, 2010, the Permittee shall use diesel fuel in the engines that meets the following requirements of 40 CFR 80.510(b):

(a). Sulfur content: 15 ppm maximum; and

(b). A minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(b)]

2. Monitoring and Record Keeping Requirements

a. The Permittee of a stationary compression ignition internal combustion engine that is required to comply with the emission standards specified in Conditions IX.C.1, IX.D.1, IX.D.1.b, IX.E.1, and IX.F.1, shall demonstrate compliance according to one of the methods specified below:

i. Purchasing an engine certified according to 40 CFR Part 89 or 40 CFR Part 94, as applicable, for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's specifications.

ii. Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test shall have been conducted using the methods specified in this 40 CFR 60.4212 or 4213, and the methods shall have been followed correctly.

iii. Keeping records of engine manufacturer data indicating compliance with the standards.

iv. Keeping records of control device vendor data indicating compliance with the standards.

- v. Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable. [40 CFR 60.4211(b)]

- b. The Permittee shall maintain a copy of engine certifications or other documentation demonstrating that each engine complies with the applicable standards in this Permit, and shall make the documentation available to ADEQ upon request. [A.A.C. R18-2-306.A.4]

3. Testing Requirements [40 CFR 60.4212]

The Permittee of an internal combustion engine with a displacement of less than 30 liters per cylinder that conducts performance tests pursuant to this Permit shall do so according to 40 CFR 60.4212.

4. Permit Shield [A.A.C. R18-2-325]

Compliance with the conditions of this Part shall be deemed compliance with 60.4206, 60.4207(a) and (b), 60.4211 (a), (b), and 60.4212.

C. Particulate Matter (PM) Emissions

1. Emissions Limitations and Standards

The Permittee shall not cause or allow to be emitted more than 0.40 grams of particulate matter per horsepower-hour. [40 CFR 60.4204(a) and 60.4205(a)]

2. Permit Shield [A.A.C. R18-2-325]

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60.4204(a) and 60.4205(a)

D. Nitrogen Oxide Emissions

1. Emissions Limitations and Standards

The Permittee shall not cause or allow to be emitted more than 6.9 grams of nitrogen oxides per horsepower-hour. [40 CFR 60.4204(a) and 60.4205(a)]

2. Permit Shield [A.A.C. R18-2-325]

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60.4204(a) and 60.4205(a).

E. Carbon Monoxide Emissions

1. Emissions Limitations and Standards

The Permittee shall not cause or allow to be emitted more than 8.5 grams of carbon monoxide per horsepower-hour. [40 CFR 60.4204(a) and 60.4205(a)]

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2. Permit Shield [A.A.C. R18-2-325]

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60.4204(a) and 60.4205(a).

F. Hydrocarbon Emissions

1. Emissions Limitations and Standards

The Permittee shall not cause or allow to be emitted more than 1.0 grams of hydrocarbons per horsepower-hour. [40 CFR 60.4204(a) and 60.4205(a)]

2. Permit Shield [A.A.C. R18-2-325]

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60.4204(a) and 60.4205(a).

Section X is hereby added to Attachment "B" of Operating Permit # 36632.

X. HEATERS

A. Applicability

This Section applies to the heaters at the facility.

B. Operational Requirements

Upon replacing any heater with a replacement heater that has the same or lower Btu and CFM ratings, the Permittee shall keep a record of the following information for each replacement heater. [A.A.C. 18-2-306.A.3.c]

1. Capacity and serial number of the heater to be replaced.
2. Capacity and serial number of the replacement heater.
3. Date and time when the replacement was completed.
4. The date the log was made and the first and last name of the person making the log.

The records shall be available to ADEQ upon request.

C. Fuel Limitations

1. Fuel Limitations

- a. The Permittee shall only fire propane fuel in the heaters. [A.A.C. R18-2-306.A.2]
- b. The Permittee shall not burn more than 0.13 million cubic feet of liquid propane in any rolling 12-month period basis cumulative for all heaters at the facility. [A.A.C. R18-2-306.A.2, -306.01.A, and -331.A.3.a]
[Material Permit Conditions are identified by italics and underlines]

2. Monitoring and Record Keeping Requirements

On a monthly basis, the Permittee shall calculate and record the 12-month rolling total of propane used at the facility to show compliance with Condition X.C.1.b above. [A.A.C. R18-2-306.A3.c]

B. Particulate Matter (PM) Emissions

1. Emission Limitations/Standards [A.A.C. R18-2-730.A.1]

- a. The Permittee shall not allow or permit the emission of particulate matter into the atmosphere in any one hour from the recycling furnace in total quantities in excess of the amount calculated by the following equations:

- i. For process sources having a process weight rate of 30 tons per hour or less, the maximum allowable emissions shall be determined by the following equation:

$$E = 4.1 P^{0.67}$$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour

P = the process weight rate in tons-mass per hour

- ii. For process sources having a process weight rate greater than of 30 tons per hour, the maximum allowable emissions shall be determined by the following equation:

$$E = 55.0 P^{0.11} - 40$$

Where:

E = the maximum allowable particulate emissions rate in pounds-mass per hour

P = the process weight rate in tons-mass per hour

- b. For purposes of this Section, the total process weight from all similar units employing a similar type process shall be used in determining the maximum allowable emission of particulate matter. [A.A.C. R18-2-730.B]

2. Monitoring, Reporting, and Recordkeeping [A.A.C. R18-2-306.A.3.c]

The Permittee shall keep records of fuel supplier certifications. The certification shall contain information regarding the name of fuel supplier and lower heating value of the fuel. These records shall be made available to ADEQ upon request.

3. Permit Shield [A.A.C. R18-2-325]

Compliance with this Part shall be deemed compliance with A.A.C. R18-2-730.A.1.

D. Opacity

1. Emission Limitation [A.A.C.R18-2-702.B]

a. The Permittee shall not cause, allow or permit the opacity of any plume or effluent to exceed 20 percent. [A.A.C. R18-2-702.B.3]

b. If the presence of uncombined water is the only reason for an exceedance of any visible emissions, the exceedance shall not constitute a violation of the applicable opacity limit. [A.A.C. R18-2-702.C]

2. Permit Shield [A.A.C. R18-2-325]

Compliance with this Part shall be deemed compliance with A.A.C. R18-2-702.B and -702.C.

E. Gaseous Emissions

1. Operational Limitations

Where a stack, vent or other outlet is at such a level that fumes, gas mist, odor, smoke, vapor or any combination thereof constituting air pollution is discharged to adjoining property, the Director may require the installation of abatement

equipment or the alteration of such stack, vent, or other outlet by the owner or operator thereof to a degree that will adequately dilute, reduce or eliminate the discharge of air pollution to adjoining property. [A.A.C. R18-2-730.G]

2. Emissions Limitations and Standards

The Permittee shall not emit gaseous or odorous materials from equipment, operations or premises under his control in such quantities or concentrations as to cause air pollution. [A.A.C. R18-2-730.D]

3. Permit Shield [A.A.C. R18-2-325]

Compliance with this Part shall be deemed compliance with A.A.C. R18-2-730.D, and -730.G.

F. Sulfur Dioxide Emissions

1. Emissions Limitations and Standards [A.A.C. R18-2-730.A.2]

The Permittee shall not cause or allow the emission of sulfur dioxide from the heaters, at an emission rate greater than 600 parts per million.

2. Permit Shield [A.A.C. R18-2-325]

Compliance with this Part shall be deemed compliance with A.A.C. R18-2-730.A.2.

G. Nitrogen Dioxide Emissions

1. Emissions Limitations and Standards [A.A.C. R18-2-730.A.3]

The Permittee shall not cause or allow the emission of nitrogen oxides from the heaters, at an emission rate greater than 500 parts per million.

2. Permit Shield [A.A.C. R18-2-325]

Compliance with this Part shall be deemed compliance with A.A.C. R18-2-730.A.3.

Section XI is hereby added to Attachment "B" of Operating Permit # 36632.

XI. GASOLINE DISPENSING FACILITIES

Hazardous Air Pollutants (HAPs)

1. Applicability

- a. This Section applies to each gasoline dispensing facility (GDF) that is located at the facility. The affected source includes each gasoline cargo tank during the delivery of product to a GDF and also includes each storage tank.
[40 CFR 63.11111(a)]
- b. This Section applies to gasoline storage tanks and associated equipment components in vapor or liquid gasoline service at new, reconstructed, or existing gasoline dispensing facilities located at an area source. Pressure/Vacuum vents on gasoline storage tanks and the equipment necessary to unload product from cargo tanks into the storage tanks at GDF are covered emission sources. The equipment used for the refueling of motor vehicles is not covered by this Section.
[40 CFR 63.11112(a)]
- c. The Permittee is required to comply with the standards in this Section no later than January 10, 2011.
[40 CFR 63.11113(b)]
- d. The Permittee shall not allow the throughput of gasoline to exceed 10,000 gallons per month.
[A.A.C. R18-2-306.01 and 331.A.3.a]
[Material permit conditions are indicated by underline and italics]
- e. The equipment associated with this Section is subject to the NESHAP General Provisions, as described in Table 3 to 40 CFR 63 Subpart CCCCCC.
[40 CFR 63.11130]

2. Emission Standards

- a. The Permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
[40 CFR 63.11116(a)]
 - (1) Minimize gasoline spills;
 - (2) Clean up spills as expeditiously as practicable;
 - (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
 - (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water

separators.

b. The Permittee is not required to submit notifications or reports, but shall have records available within 24 hours of a request by the Administrator or Director to document the gasoline throughput. [40 CFR 63.11116(b)]

c. The Permittee shall comply with the requirements of this Section by the applicable dates specified in Conditions XI.1.c. [40 CFR 63.11116(c)]

3. Record Keeping Requirements

The Permittee shall maintain a monthly log of the throughput of the storage tank. [A.A.C. R18-2-306.A.3.c]

4. Permit Shield [A.A.C. R18-2-325]

Compliance with Section IV.D shall be deemed compliance with 40 CFR 63.11111(a), 40 CFR 63.11112(a), 40 CFR 63.11113(b), 40 CFR 63.11130, 40 CFR 63.11116(a), 40 CFR 63.11116(b), and 40 CFR 63.11116(c).

Section XII is hereby added to Attachment "B" of Operating Permit # 36632.

XII. GASOLINE STORAGE TANK

A. Applicability

This Section applies to the gasoline storage tank as identified in Attachment "C" of this permit.

B. Operating Limitations

1. Operational Requirements

a. Gasoline storage tank shall be equipped with a submerged filling device or acceptable equivalent, for control of hydrocarbon emissions. [A.A.C. R18-2-710.B]

b. All pumps and compressors that handle gasoline shall be equipped with mechanical seals or other equipment of equal efficiency to prevent release of organic contaminants into the atmosphere. [A.A.C. R18-2-710.D]

2. Monitoring and recordkeeping requirements

a. The Permittee shall, for the gasoline storage tank, maintain a file, of the typical Reid vapor pressure of gasoline stored and of dates of storage. Dates on which the storage vessel is empty shall be shown. [A.A.C. R18-2-710.E.1]

- b. The Permittee shall record the average monthly temperature and true vapor pressure of gasoline at such temperature if the true vapor pressure is greater than 470 mm Hg (9.1 psia) and the gasoline is stored in a storage vessel other than one equipped with a vapor recovery system or its equivalent. [A.A.C. R18-2-710.E.2.b]
- c. The average monthly storage temperature shall be an arithmetic average calculated for each calendar month, or portion thereof, if storage is for less than a month, from bulk liquid storage temperatures determined at least once every seven days. [A.A.C. R18-2-710.E.3]
- d. The true vapor pressure shall be determined by the procedures in American Petroleum Institute Bulletin 2517, amended as of February 1980 (and no future editions), which is incorporated herein by reference and on file with the Office of the Secretary of State. This procedure is dependent upon determination of the storage temperature and the Reid vapor pressure, which requires sampling of the petroleum liquids in the storage vessels. Unless the Director requires in specific cases that the stored petroleum liquid be sampled, the true vapor pressure may be determined by using the average monthly storage temperature and the typical Reid vapor pressure. For those liquids for which certified specifications limiting the Reid vapor pressure exist, the Reid vapor pressure may be used. For other liquids, supporting analytical data must be made available upon request to the Director when typical Reid vapor pressure is used. [A.A.C. R18-2-710.E.4]

3. Permit Shield [A.A.C. R18-2-325]

Compliance with the conditions of this Part shall be deemed compliance with A.A.C. R18-2-710.B, A.A.C. R18-2-710.D, A.A.C. R18-2-710.E.1, A.A.C. R18-2-710.E.2.b, A.A.C. R18-2-710.E.3 and A.A.C. R18-2-710.E.4.

C. Opacity

1. Emission Limitations/Standards

The opacity of any plume or effluent from the storage tanks shall not be greater than 20 percent. [A.A.C. R18-2-702.B]

1. Permit Shield [A.A.C. R18-2-325]

Compliance with the conditions of this Part shall be deemed compliance with A.A.C. R18-2-702.B.

ATTACHMENT "C": EQUIPMENT LIST

The equipment list in Attachment "C" of Significant Revision # 47339 to Operating Permit # 36632 has been updated to include the following equipment:

Equipment Name	NSPS Applicability	Make / Model	Rated Capacity	Serial Number / Equipment ID Number	Date of Manufacture / Construction	Annual Hours of Operation
Generator	Y	Caterpillar / C9PKGG	448 HP	C9E00184 / Well No. 7	April 10, 2006	8760
Generator	N	Generac / 92A04138-S	224 HP	2005652 / Booster Stn.	1992	3250
Generator	N	Generac / 92A04138-S	224 HP	2005653 / Well No. 1-4	1992	3250

Heaters:

Farm:	Equipment ID	Make	Model	Rating (BTU)	CFM	Serial Number	Date of Manufacture
Midway 1	1	Hired Hand	SS-225-XL	225,000	1000	1793	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	1078	Unknown
	3	Hired Hand	SS-225-XL	225,000	1000	56905	Unknown
	4	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
Midway 2	1	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	3	Hired Hand	SS-225-XL	225,000	1000	140816	Unknown
	4	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
Midway 3	1	Hired Hand	SS-225-XL	225,000	1000	161783	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
Juniper B1	1	LB White	AW 060	60,000	240	M59579	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	Unknown	Apr-92
	3	Hired Hand	SS-225-XL	225,000	1000	Unknown	May-92
	4	Hired Hand	SS-225-XL	225,000	1000	Unknown	Jun-92
	5	Hired Hand	SS-225-XL	225,000	1000	Unknown	Jul-92
	6	Hired Hand	SS-225-XL	225,000	1000	Unknown	Aug-92
	7	Hired Hand	SS-225-XL	225,000	1000	Unknown	Sep-92
	8	Hired Hand	HH-SS-225	225,000	1000	182178	Jun-06

Farm:	Equipment ID	Make	Model	Rating (BTU)	CFM	Serial Number	Date of Manufacture
Juniper B2	1	LB White	AW 060	60,000	240	M61030	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	Unknown	Apr-92
	3	Hired Hand	SS-225-XL	225,000	1000	Unknown	May-92
	4	Hired Hand	SS-225-XL	225,000	1000	Unknown	Jun-92
	5	Hired Hand	SS-225-XL	225,000	1000	Unknown	Jul-92
	6	Hired Hand	SS-225-XL	225,000	1000	Unknown	Aug-92
	7	Hired Hand	SS-225-XL	225,000	1000	Unknown	Sep-92
	8	Hired Hand	HH-SS-225	225,000	1000	182182	Jun-06
Manzanita B1	1	LB White	AW 060	60,000	240	M55973	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	Unknown	Apr-92
	3	Hired Hand	SS-225-XL	225,000	1000	Unknown	May-92
	4	Hired Hand	SS-225-XL	225,000	1000	Unknown	Jun-92
	5	Hired Hand	SS-225-XL	225,000	1000	Unknown	Jul-92
	6	Hired Hand	SS-225-XL	225,000	1000	Unknown	Aug-92
	7	Hired Hand	SS-225-XL	225,000	1000	Unknown	Sep-92
	8	Hired Hand	HH-SS-225	225,000	1000	182180	Jun-06
Manzanita B2	1	LB White	AW 060	60,000	240	M61029	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	Unknown	Apr-92
	3	Hired Hand	SS-225-XL	225,000	1000	Unknown	May-92
	4	Hired Hand	SS-225-XL	225,000	1000	57934	Jun-92
	5	Hired Hand	SS-225-XL	225,000	1000	60967	Jul-92
	6	Hired Hand	SS-225-XL	225,000	1000	Unknown	Aug-92
	7	Hired Hand	SS-225-XL	225,000	1000	64764	Sep-92
	8	Hired Hand	HH-SS-225	225,000	1000	M61029	Jun-06

Farm:	Equipment ID	Make	Model	Rating (BTU)	CFM	Serial Number	Date of Manufacture
Cholla B1	1	LB White	AW 060	60,000	240	M61027	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	Unknown	Mar-93
	3	Hired Hand	SS-225-XL	225,000	1000	Unknown	Apr-92
	4	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	5	Hired Hand	SS-225-XL	225,000	1000	Unknown	Jan-93
	6	Hired Hand	SS-225-XL	225,000	1000	Unknown	Mar-93
	7	Hired Hand	SS-225-XL	225,000	1000	Unknown	Sep-92
	8	Hired Hand	SS-225-XL	225,000	1000	182179	Aug-06
Cholla B2	1	LB White	AW 060	60,000	240	M59571	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	3	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	4	Hired Hand	SS-225-XL	225,000	1000	Unknown	Mar-93
	5	Hired Hand	SS-225-XL	225,000	1000	Unknown	Apr-93
	6	Hired Hand	SS-225-XL	225,000	1000	Unknown	Apr-92
	7	Hired Hand	SS-225-XL	225,000	1000	Unknown	Apr-92
	8	Hired Hand	SS-225-XL	225,000	1000	00696	Nov-95

Farm:	Equipment ID	Make	Model	Rating (BTU)	CFM	Serial Number	Date of Manufacture
Cedar B1	1	LB White	AW 060	60,000	240	Unknown	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	35333	Unknown
	3	Hired Hand	SS-225-XL	225,000	1000	57932	Unknown
	4	Hired Hand	SS-225-XL	225,000	1000	37933	Unknown
	5	Hired Hand	SS-225-XL	225,000	1000	60970	Unknown
	6	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	7	Hired Hand	SS-225-XL	225,000	1000	96722	Unknown
	8	Hired Hand	HH-SS-225	225,000	1000	Unknown	Unknown
Cedar B2	1	LB White	AW 060	60,000	240	Unknown	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	3	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	4	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	5	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	6	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	7	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	8	Hired Hand	HH-SS-225	225,000	1000	Unknown	Unknown
Ponderosa B1	1	LB White	AW 060	60,000	240	M55975	Unknown
	2	Hired Hand	SS-225-XL	225,000	1000	59194	Unknown
	3	Hired Hand	SS-225-XL	225,000	1000	56909	Unknown
	4	Hired Hand	SS-225-XL	225,000	1000	57892	Unknown
	5	Hired Hand	SS-225-XL	225,000	1000	56910	Unknown
	6	Hired Hand	SS-225-XL	225,000	1000	56919	Unknown
	7	Hired Hand	SS-225-XL	225,000	1000	3934	Unknown
	8	Hired Hand	HH-SS-224	225,000	1000	82185	Unknown
	9	Hired Hand	HH-SS-120	120,000	1000	Unknown	Unknown

Farm:	Equipment ID	Make	Model	Rating (BTU)	CFM	Serial Number	Date of Manufacture
Ponderosa B2	1	LB White	AW 060	60,000	240	M55974	Unknown
	2	Hired Hand	HH-SS-120	120,000	1000	185886	Unknown
	3	Hired Hand	HH-SS-225	225,000	1000	182185	Unknown
	4	Hired Hand	SS-225-XL	225,000	1000	56907	Unknown
	5	Hired Hand	SS-225-XL	225,000	1000	1391	Unknown
	6	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	7	Hired Hand	SS-225-XL	225,000	1000	Unknown	Unknown
	8	LB White	AW 250	225,000	1000	K33354	Unknown
	9	Hired Hand	HH-SS-220	220,000	1000	1309	Unknown
Ponderosa GDU	1	Hired Hand	HH-SS-225	225,000	1000	188536	Unknown
	2	Hired Hand	HH-SS-226	225,000	1000	188553	Unknown
	3	Hired Hand	HH-SS-227	225,000	1000	188552	Unknown
	4	Hired Hand	HH-SS-228	225,000	1000	188554	Unknown

Farm:	Equipment ID	Make	Model	Rating (BTU)	CFM	Serial Number	Date of Manufacture
Nursery 31	1	Hired Hand	HH-XL-225	225,000	1000	Unknown	Apr-92
	2	Hired Hand	HH-XL-226	225,000	1000	Unknown	Apr-92
	3	Hired Hand	HH-XL-227	225,000	1000	Unknown	Apr-92
	4	Hired Hand	HH-XL-228	225,000	1000	Unknown	Apr-92
	5	Hired Hand	HH-XL-229	225,000	1000	Unknown	Apr-92
	6	Hired Hand	HH-XL-230	225,000	1000	Unknown	Apr-92
	7	Hired Hand	HH-XL-231	225,000	1000	Unknown	Apr-92
	8	Hired Hand	HH-XL-232	225,000	1000	Unknown	Apr-92
	9	Hired Hand	HH-XL-233	225,000	1000	Unknown	Apr-92
	10	Hired Hand	HH-XL-234	225,000	1000	Unknown	Apr-92
	11	Hired Hand	HH-XL-235	225,000	1000	Unknown	Apr-92
	12	Hired Hand	HH-XL-236	225,000	1000	Unknown	Apr-92
	13	Hired Hand	HH-XL-237	225,000	1000	Unknown	Apr-92
	14	Hired Hand	HH-XL-238	225,000	1000	Unknown	Apr-92
	15	Hired Hand	HH-XL-239	225,000	1000	Unknown	Apr-92
	16	Hired Hand	HH-XL-240	225,000	1000	Unknown	Apr-92
	17	Hired Hand	HH-XL-241	225,000	1000	Unknown	Apr-92
	18	LB White	AW 250	250,000	1000	Unknown	1996
Nursery 32	1	Hired Hand	HH-XL-225	225,000	1000	Unknown	Apr-92
	2	Hired Hand	HH-XL-226	225,000	1000	Unknown	Apr-92
	3	Hired Hand	HH-XL-227	225,000	1000	Unknown	Apr-92
	4	Hired Hand	HH-XL-228	225,000	1000	Unknown	Apr-92
	5	Hired Hand	HH-XL-229	225,000	1000	Unknown	Apr-92
	6	Hired Hand	HH-XL-230	225,000	1000	Unknown	Apr-92
	7	Hired Hand	HH-XL-231	225,000	1000	Unknown	Apr-92
	8	Hired Hand	HH-XL-232	225,000	1000	Unknown	Apr-92
	9	Hired Hand	HH-XL-233	225,000	1000	Unknown	Apr-92
	10	Hired Hand	HH-XL-234	225,000	1000	Unknown	Apr-92
	11	Hired Hand	HH-XL-235	225,000	1000	Unknown	Apr-92
	12	Hired Hand	HH-XL-236	225,000	1000	Unknown	Apr-92

Farm:	Equipment ID	Make	Model	Rating (BTU)	CFM	Serial Number	Date of Manufacture
Nursery 33	1	Hired Hand	HH-XL-225	225,000	1000	Unknown	Apr-92
	2	Hired Hand	HH-XL-226	225,000	1000	Unknown	Apr-92
	3	Hired Hand	HH-XL-227	225,000	1000	Unknown	Apr-92
	4	Hired Hand	HH-XL-228	225,000	1000	Unknown	Apr-92
	5	Hired Hand	HH-XL-229	225,000	1000	Unknown	Apr-92
	6	Hired Hand	HH-XL-230	225,000	1000	Unknown	Apr-92
	7	Hired Hand	HH-XL-231	225,000	1000	Unknown	Apr-92
	8	Hired Hand	HH-XL-232	225,000	1000	Unknown	Apr-92
	9	Hired Hand	HH-XL-233	225,000	1000	Unknown	Apr-92
	10	Hired Hand	HH-XL-234	225,000	1000	Unknown	Apr-92
	11	Hired Hand	HH-XL-235	225,000	1000	Unknown	Apr-92
	12	Hired Hand	HH-XL-236	225,000	1000	Unknown	Apr-92
Nursery 34	1	Hired Hand	HH-XL-225	225,000	1000	Unknown	Apr-92
	2	Hired Hand	HH-XL-226	225,000	1000	Unknown	Apr-92
	3	Hired Hand	HH-XL-227	225,000	1000	Unknown	Apr-92
	4	Hired Hand	HH-XL-228	225,000	1000	Unknown	Apr-92
	5	Hired Hand	HH-XL-229	225,000	1000	Unknown	Apr-92
	6	Hired Hand	HH-XL-230	225,000	1000	Unknown	Apr-92
	7	Hired Hand	HH-XL-231	225,000	1000	Unknown	Apr-92
	8	Hired Hand	HH-XL-232	225,000	1000	Unknown	Apr-92
	9	Hired Hand	HH-XL-233	225,000	1000	Unknown	Apr-92
	10	Hired Hand	HH-XL-234	225,000	1000	Unknown	Apr-92
	11	Hired Hand	HH-XL-235	225,000	1000	Unknown	Apr-92
	12	Hired Hand	HH-XL-236	225,000	1000	Unknown	Apr-92

Farm:	Equipment ID	Make	Model	Rating (BTU)	CFM	Serial Number	Date of Manufacture
Nursery 35	1	Hired Hand	HH-XL-225	225,000	1000	Unknown	Apr-92
	2	Hired Hand	HH-XL-226	225,000	1000	Unknown	Apr-92
	3	Hired Hand	HH-XL-227	225,000	1000	Unknown	Apr-92
	4	Hired Hand	HH-XL-228	225,000	1000	Unknown	Apr-92
	5	Hired Hand	HH-XL-229	225,000	1000	Unknown	Apr-92
	6	Hired Hand	HH-XL-230	225,000	1000	Unknown	Apr-92
	7	Hired Hand	HH-XL-231	225,000	1000	Unknown	Apr-92
	8	Hired Hand	HH-XL-232	225,000	1000	Unknown	Apr-92
	9	Hired Hand	HH-XL-233	225,000	1000	Unknown	Apr-92
	10	Hired Hand	HH-XL-234	225,000	1000	Unknown	Apr-92
	11	Hired Hand	HH-XL-235	225,000	1000	Unknown	Apr-92
	12	Hired Hand	HH-XL-236	225,000	1000	Unknown	Apr-92
Nursery 36	1	Hired Hand	HH-XL-225	225,000	1000	Unknown	Apr-92
	2	Hired Hand	HH-XL-226	225,000	1000	Unknown	Apr-92
	3	Hired Hand	HH-XL-227	225,000	1000	Unknown	Apr-92
	4	Hired Hand	HH-XL-228	225,000	1000	Unknown	Apr-92
	5	Hired Hand	HH-XL-229	225,000	1000	Unknown	Apr-92
	6	Hired Hand	HH-XL-230	225,000	1000	Unknown	Apr-92
	7	Hired Hand	HH-XL-225	225,000	1000	Unknown	Apr-92
	8	Hired Hand	HH-XL-226	225,000	1000	Unknown	Apr-92
	9	Hired Hand	HH-XL-227	225,000	1000	Unknown	Apr-92
	10	Hired Hand	HH-XL-228	225,000	1000	Unknown	Apr-92
	11	Hired Hand	HH-XL-229	225,000	1000	Unknown	Apr-92
	12	LB White	AW 250	250,000	1000	Unknown	1996

Farm:	Equipment ID	Make	Model	Rating (BTU)	CFM	Serial Number	Date of Manufacture
WF 1	1	Hired Hand	HH-SS-225	225,000	1000	188498	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	Unknown	Mar-07
WF 2	1	Hired Hand	HH-SS-225	225,000	1000	188496	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	Unknown	Mar-07
WF 3	1	Hired Hand	HH-SS-225	225,000	1000	188546	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188545	Mar-07
WF 4	1	Hired Hand	HH-SS-225	225,000	1000	188543	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	Unknown	Mar-07
WF 5	1	Hired Hand	HH-SS-225	225,000	1000	188547	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	Unknown	Mar-07
WF 6	1	Hired Hand	HH-SS-225	225,000	1000	188549	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188550	Mar-07
WF 7	1	Hired Hand	HH-SS-225	225,000	1000	188494	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	Unknown	Mar-07
WF 8	1	Hired Hand	HH-SS-225	225,000	1000	188493	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	Unknown	Mar-07
WF 9	1	Hired Hand	HH-SS-225	225,000	1000	188551	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	Unknown	Mar-07
WF 10	1	Hired Hand	HH-SS-225	225,000	1000	188557	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188555	Mar-07
WF 11	1	Hired Hand	HH-SS-225	225,000	1000	188531	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	Unknown	Mar-07
WF 12	1	Hired Hand	HH-SS-225	225,000	1000	188537	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188542	Mar-07
WF 13	1	Hired Hand	HH-SS-225	225,000	1000	188534	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188556	Mar-07

Farm:	Equipment ID	Make	Model	Rating (BTU)	CFM	Serial Number	Date of Manufacture
WF 14	1	Hired Hand	HH-SS-225	225,000	1000	188532	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188533	Mar-07
WF 15	1	Hired Hand	HH-SS-225	225,000	1000	188530	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188527	Mar-07
WF 16	1	Hired Hand	HH-SS-225	225,000	1000	188528	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188529	Mar-07
WF 17	1	Hired Hand	HH-SS-225	225,000	1000	188516	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188519	Mar-07
WF 18	1	Hired Hand	HH-SS-225	225,000	1000	188515	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188526	Mar-07
WF 19	1	Hired Hand	HH-SS-225	225,000	1000	188520	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188522	Mar-07
WF 20	1	Hired Hand	HH-SS-225	225,000	1000	188525	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188523	Mar-07
WF 21	1	Hired Hand	HH-SS-225	225,000	1000	188517	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188518	Mar-07
WF 22	1	Hired Hand	HH-SS-225	225,000	1000	188524	Mar-07
	2	Hired Hand	HH-SS-225	225,000	1000	188521	Mar-07

Equipment Name	Make / Model	Rated Capacity	Serial Number / Equipment ID Number	Date of Manufacture / Construction
Gasoline storage tank	F. C. Lowe Welding	2,000 gal	N/A	N/A

ATTACHMENT "D": ODOR AND DUST CONTROL PLANS
Addenda (Significant Revision #47339)
to Operating Permit #36632
for
PFFJ, Inc.

I. Odor Control Methods

A. Swine Confinement Structures:

i. Adequate Ventilation:

The following technologies and work practices shall be employed in all existing structures to ensure adequate ventilation and efficient air movement to reduce gas and odor:

- (a) Natural ventilation with drop curtain sides and mechanical ventilation fans: drop curtains run the length of the barns on both sides. The fans shall be operated to maintain adequate air exchange in cold weather to remove excess moisture in order to maintain a suitable indoor air environment.
- (b) Negative pressure ventilation with exhaust wall fans and mechanically actuated air inlets: Air inlets are adjusted and maintained to direct air into the room to provide good air distribution and mixing.

ii. Effluent Management:

The following technologies and work practices shall be employed to ensure that manure is managed to minimize the emission of odorous materials from the production buildings:

- (a) All surfaces (including aisles, slatted floors, equipment and walls) on which manure may collect and animals are exposed, shall be maintained as clean and dry as possible. Ventilation systems shall be operated and maintained to assure adequate air exchange and distribution of moisture removal and drying.
- (b) Floors, walls, and equipment shall be cleaned regularly to reduce manure accumulation. Aisles between pens and stalls shall be regularly cleaned to remove dried manure and debris accumulation. Manure shall be placed in the manure and wastewater collection pits for removal from the building. Floors, walls, and equipment shall be cleaned by washing with water between animal groups to reduce manure accumulation.
- (c) Manure and process wastewater collected in the shallow under-floor pits shall be removed from the building using flush and gravity flow plug methods. Treated effluent shall be used for flush water and to recharge shallow pits.
- (d) All surfaces in the production buildings shall be completely cleaned and washed down between groups of animals. Farrowing buildings shall be

- cleaned regularly. The breeding and gestation buildings shall be cleaned as sows are moved to the farrowing barn.
- (e) Flush, pull-plug, and gutter systems shall be maintained to remove effluent and process wastewater from the buildings and control manure accumulations.
 - (f) The shallow under-floor pits and gutters shall be flushed and emptied per a programmed schedule to maintain a uniform and consistent loading of the treatment lagoons.
 - (g) Manure accumulation on floor surfaces shall be controlled and minimized by utilizing slatted floors to remove manure from the animal housing space. Regular cleaning shall be used to further minimize manure accumulation on floor surfaces.
 - (h) Flush water lines shall be located to minimize splashing and agitation, minimizing odor release.
 - (i) Gravity drain pipeline cleanouts shall be covered to minimize odor release and prevent accidental entry. Cleanouts shall be provided to assure complete removal of manure and process wastewater.

B. Effluent Collection, Storage, and Treatment Systems:

The following technologies and work practices shall be employed to manage and minimize the emission of odorous materials from manure and process wastewater collection, storage, and treatment systems:

i. Storage and Treatment System

- (a) An evaporative lagoon shall be used to collect, store, and treat the effluent and process wastewater generated from the production buildings.
- (b) The operating loading rate for the storage and treatment system shall be maintained for adequate manure and wastewater stabilization. Removal of effluent and process wastewater from the buildings shall be staged to maintain a uniform, regular loading rate in the treatment and storage system. Loading shall occur on a daily basis to prevent “shock” loading or overloading and possible upset conditions. The operating loading rate shall be maintained to manage and minimize odors from the storage and treatment system.
- (c) A liquid cover shall be maintained to manage and minimize the emission of odorous materials from the treatment and storage systems.
- (d) Transfer piping into the lagoon shall be designed and maintained to minimize the emission of odorous materials during loading. The transfer pipe shall be maintained to promote efficient discharge of incoming manure.

ii. Minimize Release of Odorous Materials from Liquids in Treatment and Storage Systems

Effluent and process wastewater storage and treatment systems shall be operated and managed to minimize the emission of odorous materials into the atmosphere by providing and employing the following technologies and work practices:

- (a) The treatment and storage system shall be operated to manage and minimize odors by maintaining a volatile solids loading rate to maximize biological treatment and minimize the release of odorous materials.
- (b) Utilize existing building structures and land formations to screen and minimize the emission of potential odorous materials.
- (c) A liquid cover shall be maintained to manage and minimize the emission of odorous materials from the treatment and storage systems.
- (d) Maintain transfer and inlet pipes to minimizing agitation of the water surface during loading to reduce the release of odorous materials to the atmosphere.

iii. Alternative Treatments

Best management practices and operational procedures shall be conducted at these production sites to minimize the emission of odorous materials. The following alternative odor control technologies and work practices may be considered for future use:

- (a) Biological or chemical treatment additives may be used in the treatment and storage system to enhance the biological activity, effluent and process wastewater stabilization, and breakdown and stabilization of residual solids. Specific biological or chemical additives will be evaluated on a case-by-case basis to determine applicability and effectiveness.
- (b) Methane digestion may be used for treatment to aid in the breakdown and stabilization of effluent and minimize odor emissions.

C. Mortality Management:

Mortalities from this production facility shall be handled and managed in a manner and using the following technologies and practices, to minimize the emission of odorous materials:

Off-site Landfill

- i. Mortalities shall be removed from the buildings within 24 hours.
- ii. Mortalities shall not be left by the roadside for pick-up.
- iii. Mortalities shall be collected and transported to a central load-out location for pick-up.
- iv. Mortalities shall be picked up and transported off-site by a commercial land fill truck in an enclosed waste container.

II. Dust Control Methods

- A.** The following technologies and work practices shall be employed to ensure dust is controlled and managed to minimize the amount of dust in the confinement structure:

- i. The following work practices shall be conducted:
 - (a) Pens, floors, and walls shall be cleaned by washing with water between animal groups to remove dust and manure accumulations.
 - (b) Aisles between pens and stalls shall be cleaned to remove dried manure and debris accumulation regularly. Manure shall be placed in the manure and wastewater collection pits for removal from the building.
 - (c) Gestating sows shall be washed prior to moving and entering the farrowing barn to maintain a clean farrowing environment.
- ii. No bedding shall be used in the production facility. Slotted flooring shall be used to remove manure and wastewater from the animal production area.
- iii. Oil shall be added to the feed rations to minimize dust during feed handling and consumption.
- iv. Feed shall be delivered to weanlings, finishers, and sows in the breeding and gestation barns through an enclosed feed transfer system to minimize dust release. Sows in farrowing bars shall be hand fed in individual sow feeders. Feed systems shall be operated and maintained to minimize dust. Feed downspouts shall be designed to reduce feed drop distance and minimize dust release.
- v. Feed storage tanks shall be located outside of each barn. Feed storage tanks and delivery systems shall be inspected regularly and maintained to keep mechanical equipment in good repair. Feed shall be delivered into the feed storage tanks through an enclosed auger with a flexible discharge spout to minimize dust release and feed spillage. Feed spillage shall be collected on a concrete apron under each tank. Spilled feed shall be removed promptly to minimize dust release.
- vi. Dust and debris accumulation on exhaust fan blades, shutters, housing, and guards shall be removed regularly to minimize dust release. Exhaust fan blades, shutters, housing, and guards shall be thoroughly cleaned when rooms are emptied and cleaned.
- vii. Building sidewall soffit inlet screens shall be maintained to assure adequate air flow into the building attic and hallway. Sidewall soffit screens shall be cleaned of debris such as dust, cobwebs, and other materials as needed to keep them open. Weeds and vegetative growth around the buildings shall be controlled to reduce airflow blockages and prevent harboring of dust and other debris.

B. The following technologies and work practices shall be employed to ensure dust is controlled and managed from unpaved roads:

Frequent, as needed, watering and speed limits will be used to control dust on the unpaved roads.