

CLASS II AIR QUALITY PERMIT

DRAFT PERMIT No. 92956

PERMITTEE: PFFJ, LLC DBA Smithfield Hog Production
FACILITY: PFFJ LLC - Snowflake CAFO
PLACE ID: 35101
DATE ISSUED: XXXX, 2022
EXPIRY DATE: XXXX, 2027

SUMMARY

This Class II air quality permit is issued to PFFJ, LLC DBA Smithfield Hog Production, the Permittee, for the continued operation of the PFFJ LLC - Snowflake CAFO. The facility is located 11 (farm) and 14 (feed mill) miles north of Snowflake, AZ off Highway 77, Snowflake, Navajo County, Arizona 85937. This permit renews and supersedes Permit # 65643.

The main ingredients for this operation are corn and soybean meal which are delivered to the facility by railcar. The soy meal is transferred by screw conveyor and bucket elevator to one of two additive bins and the corn is transferred to one of two 3,000-ton storage silos via screw conveyor and bucket elevator. At maximum production, the facility is capable of producing 72 tons per hour of animal feed. Assuming continuous operation, the facility may produce up to 630,720 tons of animal feed per year. The facility also operates propane fired heaters, diesel fired internal combustion engines, gasoline storage tanks, and gasoline dispensing facility. The uncontrolled potential to emit from this facility is greater than the significance levels identified in A.A.C. R18-2-101.131. Therefore, a class II permit is required for this facility in accordance with A.A.C. R18-2-302.B.2.a.

This permit is issued in accordance with Arizona Revised Statutes (ARS) 49-426. It contains requirements from Title 18, Chapter 2 of the A.A.C. and Title 40 of the Code of Federal Regulations. All definitions, terms, and conditions used in this permit conform to those in the Arizona Administrative Code R18-2-101 et. seq. (A.A.C.) and Title 40 of the Code of Federal Regulations (CFR), except as otherwise defined in this permit.

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ATTACHMENT "A": GENERAL PROVISIONS

I. PERMIT EXPIRATION AND RENEWAL

- A. This permit is valid for a period of five (5) years from the date of issuance.
[ARS § 49-426.F, A.A.C. R18-2-306.A.1]
- B. The Permittee shall submit an application for renewal of this permit at least six (6) months, but not more than eighteen (18) months, prior to the date of permit expiration.
[A.A.C. R18-2-304.D.2]

II. COMPLIANCE WITH PERMIT CONDITIONS

- A. The Permittee shall comply with all conditions of this permit including all applicable requirements of the Arizona Revised Statutes (A.R.S.) Title 49, Chapter 3, and the air quality rules under Title 18, Chapter 2 of the Arizona Administrative Code. Any permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. In addition, noncompliance with any federally enforceable requirement constitutes a violation of the Clean Air Act.
[A.A.C. R18-2-306.A.8.a]
- B. 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.
[A.A.C. R18-2-306.A.8.b]

III. PERMIT REVISION, REOPENING, REVOCATION AND REISSUANCE, OR TERMINATION FOR CAUSE

- A. The permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[A.A.C. R18-2-306.A.8.c]
- B. The permit shall be reopened and revised under any of the following circumstances:
1. The Director 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; and
[A.A.C. R18-2-321.A.1.c]
 2. The Director or the Administrator determines that the permit needs to be revised or revoked to assure compliance with the applicable requirements.
[A.A.C. R18-2-321.A.1.d]
- C. Proceedings to reopen and issue a permit, including appeal of any final action relating to a permit reopening, shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening

shall be made as expeditiously as practicable. Permit reopenings shall not result in a resetting of the five-year permit term.

[A.A.C. R18-2-321.A.2]

IV. POSTING OF PERMIT

A. The Permittee shall post this permit or a certificate of permit issuance on location where the equipment is installed in such a manner as to be clearly visible and accessible. All equipment covered by this permit shall be clearly marked with one of the following:

[A.A.C. R18-2-315.A]

1. Current permit number; or
2. Serial number or other equipment ID number that is also listed in the permit to identify that piece of equipment.

B. A copy of the complete permit shall be kept on site.

[A.A.C. R18-2-315.B]

V. FEE PAYMENT

The Permittee shall pay fees to the Director pursuant to ARS § 49-426(E) and A.A.C. R18-2-326.

[A.A.C. R18-2-306.A.9 and -326]

VI. EMISSIONS INVENTORY QUESTIONNAIRE

A. The Permittee shall complete and submit to the Director an emissions inventory questionnaire no later than June 1 every three years beginning June 1, 2021. At the Director's request, the Permittee may be required to complete and submit emissions inventory questionnaires in addition to the triennial emissions inventory questionnaire. The Director shall notify the Permittee in writing of the decision to require additional emissions inventory questionnaires.

[A.A.C. R18-2-327.A.1.b]

B. The emissions inventory questionnaire shall be on an electronic or paper form provided by the Director and shall include the information required by A.A.C. R18-2-327.A.3 for the previous calendar year.

[A.A.C. R18-2-327.A.3]

C. The Permittee shall submit to the Director an amendment to an emissions inventory questionnaire, containing the documentation required by A.A.C. R18-2-327.A.3, whenever the Permittee discovers or receives notice, within two years of the original submittal, that incorrect or insufficient information was submitted to the Director by a previous emissions inventory questionnaire. The amendment shall be submitted to the Director within 30 days of discovery or receipt of notice. If the incorrect or insufficient information resulted in an incorrect annual emissions fee, the Director shall require that additional payment be made or shall apply an amount as a credit to a future annual emissions fee. The submittal of an amendment shall not subject the Permittee to an enforcement action or a civil or criminal penalty if the original submittal of incorrect or insufficient information was not due to willful neglect.

[A.A.C. R18-2-327.A.4]

VII. COMPLIANCE CERTIFICATION

- A. The Permittee shall submit a compliance certification to the Director annually which describes the compliance status of the source with respect to each permit condition. The certification shall be submitted no later than September 15th, and shall report the compliance status of the source during the period between August 1st of the previous year and July 31st of the current year.

[A.A.C. R18-2-309.2.a]

- B. The compliance certifications shall include the following:

1. Identification of each term or condition of the permit that is the basis of the certification;

[A.A.C. R18-2-309.2.c.i]

2. Identification of the methods or other means used by the Permittee for determining the compliance status with each term and condition during the certification period;

[A.A.C. R18-2-309.2.c.ii]

3. Status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certifications shall identify each deviation (including any deviations reported pursuant to Condition XII.B of this Attachment) during the period covered by the certification and take it into account for consideration in the compliance certification

[A.A.C. R18-2-309.2.c.iii]

4. Other facts the Director may require in determining the compliance status of the source.

[A.A.C. R18-2-309.2.c.iv]

- C. A progress report on all outstanding compliance schedules shall be submitted every six months beginning six months after permit issuance.

[A.A.C. R18-2-309.5.d]

VIII. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

[A.A.C. R18-2-309.3]

IX. INSPECTION AND ENTRY

Upon presentation of proper credentials, the Permittee shall allow the Director or the authorized representative of the Director to:

- A. Enter upon the Permittee's premises where a source is located, emissions-related activity is conducted, or where records are required to be kept under the conditions of the permit;

[A.A.C. R18-2-309.4.a]

- B. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
[A.A.C. R18-2-309.4.b]
- C. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
[A.A.C. R18-2-309.4.c]
- D. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements; and
[A.A.C. R18-2-309.4.d]
- E. Record any inspection by use of written, electronic, magnetic and photographic media.
[A.A.C. R18-2-309.4.e]

X. PERMIT REVISION PURSUANT TO FEDERAL HAZARDOUS AIR POLLUTANT STANDARD

If this source becomes subject to a standard promulgated by the Administrator pursuant to Section 112(d) of the Act, then the Permittee shall, within twelve months of the date on which the standard is promulgated, submit an application for a permit revision demonstrating how the source will comply with the standard.

[A.A.C. R18-2-304.D.3]

XI. ACCIDENTAL RELEASE PROGRAM

If this source becomes subject to the provisions of 40 CFR Part 68, then the Permittee shall comply with these provisions according to the time line specified in 40 CFR Part 68.

[40 CFR Part 68]

XII. EXCESS EMISSIONS, PERMIT DEVIATIONS, AND EMERGENCY REPORTING

- A. Excess Emissions Reporting
[A.A.C. R18-2-310.01.A, B, and C]

- 1. Excess emissions shall be reported as follows:

- a. The Permittee shall report to the Director any emissions in excess of the limits established by this permit. Such report shall be in two parts as specified below:

[A.A.C. R18-2-310.01.A]

- (1) Notification by telephone or facsimile within 24 hours of the time when the Permittee first learned of the occurrence of excess emissions including all available information from Condition XII.A.1.b below.
- (2) Detailed written notification by submission of an excess emissions report within 72 hours of the notification pursuant to Condition XII.A.1.a(1) above.

- b. The report shall contain the following information:
- (1) Identity of each stack or other emission point where the excess emissions occurred;
[A.A.C. R18-2-310.01.B.1]
 - (2) Magnitude of the excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the magnitude of the excess emissions;
[A.A.C. R18-2-310.01.B.2]
 - (3) Time and duration, or expected duration, of the excess emissions;
[A.A.C. R18-2-310.01.B.3]
 - (4) Identity of the equipment from which the excess emissions emanated;
[A.A.C. R18-2-310.01.B.4]
 - (5) Nature and cause of the emissions;
[A.A.C. R18-2-310.01.B.5]
 - (6) If the excess emissions were the result of a malfunction, steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunctions;
[A.A.C. R18-2-310.01.B.6]
 - (7) Steps that were or are being taken to limit the excess emissions; and
[A.A.C. R18-2-310.01.B.7]
 - (8) If the excess emissions resulted from start-up or malfunction, the report shall contain a list of the steps taken to comply with the permit procedures governing source operation during periods of startup or malfunction.
[A.A.C. R18-2-310.01.B.8]
2. In the case of continuous or recurring excess emissions, the notification requirements shall be satisfied if the source provides the required notification after excess emissions are first detected and includes in such notification an estimate of the time the excess emissions will continue. Excess emissions occurring after the estimated time period, or changes in the nature of the emissions as originally reported, shall require additional notification pursuant to Condition XII.A.1 above.
[A.A.C. R18-2-310.01.C]

B. Permit Deviations Reporting

The Permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the applicable requirement contains a definition of prompt or otherwise specifies a timeframe for

reporting deviations, that definition or timeframe shall govern. Where the applicable requirement does not address the timeframe for reporting deviations, the Permittee shall submit reports of deviations according to the following schedule:

1. Notice that complies with Condition XII.A above is prompt for deviations that constitute excess emissions;
[A.A.C. R18-2-306.A.5.b.i]
2. Notice that is submitted within two working days of discovery of the deviation is prompt for deviations of permit conditions identified by Condition I.C.1 of Attachment “B”;
[A.A.C. R18-2-306.A.5.b.ii]
3. Except as provided in Conditions XII.B.1 and 2, prompt notification of all other types of deviations shall be annually, concurrent with the annual compliance certifications required in Section VII, and can be submitted via myDEQ, the Arizona Department of Environmental Quality’s online portal.
[A.A.C. R18-2-306.A.5.b.ii]

C. Emergency Provision

1. An “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, that require immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
[A.A.C. R18-2-306.E.1]
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if Condition XII.C.3 below is met.
[A.A.C. R18-2-306.E.2]
3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
[A.A.C. R18-2-306.E.3]
 - a. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;
[A.A.C. R18-2-306.E.3.a]
 - b. The permitted facility was being properly operated at the time of the emergency;
[A.A.C. R18-2-306.E.3.b]
 - c. During the period of the emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and

[A.A.C. R18-2-306.E.3.c]

- d. The Permittee submitted notice of the emergency to the Director by certified mail, facsimile, or hand delivery within two working days of the time when emission limitations were exceeded due to the emergency. This notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.

[A.A.C. R18-2-306.E.3.d]

4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

[A.A.C. R18-2-306.E.4]

5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

[A.A.C. R18-2-306.E.5]

D. Affirmative Defenses for Excess Emissions Due to Malfunctions, Startup, and Shutdown

1. Applicability

A.A.C. R18-2-310 establishes affirmative defenses for certain emissions in excess of an emission standard or limitation and applies to all emission standards or limitations except for standards or limitations:

- a. Promulgated pursuant to Sections 111 or 112 of the Act;
[A.A.C. R18-2-310.A.1]
- b. Promulgated pursuant to Titles IV or VI of the Clean Air Act;
[A.A.C. R18-2-310.A.2]
- c. Contained in any Prevention of Significant Deterioration (PSD) or New Source Review (NSR) permit issued by the U.S. EPA;
[A.A.C. R18-2-310.A.3]
- d. Contained in A.A.C. R18-2-715.F; or
[A.A.C. R18-2-310.A.4]
- e. Included in a permit to meet the requirements of A.A.C. R18-2-406.A.5.
[A.A.C. R18-2-310.A.5]

2. Affirmative Defense for Malfunctions

Emissions in excess of an applicable emission limitation due to malfunction shall constitute a violation. When emissions in excess of an applicable emission limitation are due to a malfunction, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:

[A.A.C. R18-2-310.B]

- a. The excess emissions resulted from a sudden and unavoidable breakdown of process equipment or air pollution control equipment beyond the reasonable control of the Permittee;
[A.A.C. R18-2-310.B.1]
- b. The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
[A.A.C. R18-2-310.B.2]
- c. If repairs were required, the repairs were made in an expeditious fashion when the applicable emission limitations were being exceeded. Off-shift labor and overtime were utilized where practicable to ensure that the repairs were made as expeditiously as possible. If off-shift labor and overtime were not utilized, the Permittee satisfactorily demonstrated that the measures were impracticable;
[A.A.C. R18-2-310.B.3]
- d. The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;
[A.A.C. R18-2-310.B.4]
- e. All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;
[A.A.C. R18-2-310.B.5]
- f. The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;
[A.A.C. R18-2-310.B.6]
- g. During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;
[A.A.C. R18-2-310.B.7]
- h. The excess emissions did not stem from any activity or event that could have been foreseen and avoided, or planned, and could not have been avoided by better operations and maintenance practices;
[A.A.C. R18-2-310.B.8]
- i. All emissions monitoring systems were kept in operation if at all practicable; and
[A.A.C. R18-2-310.B.9]
- j. The Permittee's actions in response to the excess emissions were documented by contemporaneous records.
[A.A.C. R18-2-310.B.10]

3. Affirmative Defense for Startup and Shutdown

- a. Except as provided in Condition XII.D.3 below, and unless otherwise provided for in the applicable requirement, emissions in excess of an applicable emission limitation due to startup and shutdown shall constitute a violation. When emissions in excess of an applicable emission limitation are due to startup and shutdown, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:
- [A.A.C. R18-2-310.C.1]
- (1) The excess emissions could not have been prevented through careful and prudent planning and design;
[A.A.C. R18-2-310.C.1.a]
 - (2) If the excess emissions were the result of a bypass of control equipment, the bypass was unavoidable to prevent loss of life, personal injury, or severe damage to air pollution control equipment, production equipment, or other property;
[A.A.C. R18-2-310.C.1.b]
 - (3) The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
[A.A.C. R18-2-310.C.1.c]
 - (4) The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;
[A.A.C. R18-2-310.C.1.d]
 - (5) All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;
[A.A.C. R18-2-310.C.1.e]
 - (6) During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;
[A.A.C. R18-2-310.C.1.f]
 - (7) All emissions monitoring systems were kept in operation if at all practicable; and
[A.A.C. R18-2-310.C.1.g]
 - (8) Contemporaneous records documented the Permittee's actions in response to the excess emissions.
[A.A.C. R18-2-310.C.1.h]

XIII. RECORDKEEPING REQUIREMENTS

- b. If excess emissions occur due to a malfunction during routine startup and shutdown, then those instances shall be treated as other malfunctions subject to Condition XII.D.2 above.

[A.A.C. R18-2-310.C.2]

4. Affirmative Defense for Malfunctions During Scheduled Maintenance

If excess emissions occur due to a malfunction during scheduled maintenance, then those instances will be treated as other malfunctions subject to Condition XII.D.2 above.

[A.A.C. R18-2-310.D]

5. Demonstration of Reasonable and Practicable Measures

For an affirmative defense under Condition XII.D.2 or XII.D.3, the Permittee shall demonstrate, through submission of the data and information required by this Condition XII.D and Condition XII.A.1 above, that all reasonable and practicable measures within the Permittee's control were implemented to prevent the occurrence of the excess emissions.

[A.A.C. R18-2-310.E]

XIII. RECORDKEEPING REQUIREMENTS

- A. The Permittee shall keep records of all required monitoring information including, but not limited to, the following:

1. The date, place as defined in the permit, and time of sampling or measurements;
[A.A.C. R18-2-306.A.4.a.i]
2. The date(s) any analyses were performed;
[A.A.C. R18-2-306.A.4.a.ii]
3. The name of the company or entity that performed the analyses;
[A.A.C. R18-2-306.A.4.a.iii]
4. A description of the analytical techniques or methods used;
[A.A.C. R18-2-306.A.4.a.iv]
5. The results of analyses; and
[A.A.C. R18-2-306.A.4.a.v]
6. The operating conditions as existing at the time of sampling or measurement.
[A.A.C. R18-2-306.A.4.a.vi]

- B. The Permittee shall retain records of all required monitoring data and support information for a period of at least five (5) 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 or other data recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

[A.A.C. R18-2-306.A.4.b]

XIV. DUTY TO PROVIDE INFORMATION

- A. The Permittee shall furnish to the Director, within a reasonable time, any information that the Director may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the Permittee shall also furnish to the Director copies of records required to be kept by the permit. For information claimed to be confidential, the Permittee shall furnish an additional copy of such records directly to the Administrator along with a claim of confidentiality.

[A.A.C. R18-2-304.G and -306.A.8.e]

- B. If the Permittee has failed to submit any relevant facts or has submitted incorrect information in the permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.

[A.A.C. R18-2-304.H]

XV. PERMIT AMENDMENT OR REVISION

The Permittee shall apply for a permit amendment or revision for changes to the facility which does not qualify for a facility change without revision under Section XVII below, as follows:

- A. Facility Changes that Require a Permit Revision; [A.A.C. R18-2-317.01]
- B. Administrative Permit Amendment; [A.A.C. R18-2-318]
- C. Minor Permit Revision; and [A.A.C. R18-2-319]
- D. Significant Permit Revision. [A.A.C. R18-2-320]
- E. The applicability and requirements for such action are defined in the above referenced regulations.

XVI. FACILITY CHANGE WITHOUT A PERMIT REVISION

- A. Except for a physical change or change in the method of operation at a Class II source requiring a permit revision under A.A.C. R18-2-317.01, or a change subject to logging or notice requirements in Condition XVI.B, a change at a Class II source shall not be subject to revision, notice, or logging requirements under this Section.

[A.A.C. R18-2-317.02.A]

- B. The following changes may be made if the source keeps on site records of the changes according to Condition XVI.F below:

[A.A.C. R18-2-317.02.B]

1. Implementing an alternative operating scenario, including raw materials changes;
2. Changing process equipment, operating procedures, or making any other physical change if the permit requires the change to be logged;

3. Engaging in any new insignificant activity listed in A.A.C. R18-2-101.68 but not listed in the permit;
 4. Replacing an item of air pollution control equipment listed in the permit with an identical (same model, different serial number) item. The Director may require verification of efficiency of the new equipment by performance tests; and
 5. A change that results in a decrease in actual emissions if the source wants to claim credit for the decrease in determining whether the source has a net emissions increase for any purpose. The logged information shall include a description of the change that will produce the decrease in actual emissions. A decrease that has not been logged is creditable only if the decrease is quantifiable, enforceable, and otherwise qualifies as a creditable decrease.
- C.** The permit shield described in A.A.C. R18-2-325 shall not apply to any change made under this Section, other than implementation of an alternate operating scenario under Condition XVI.B.1.
[A.A.C. R18-2-317.02.F]
- D.** Notwithstanding any other part of this Section, the Director may require a permit to be revised for any change that, when considered together with any other changes submitted by the Permittee under this Section over the term of the permit, constitutes a change under subsection A.A.C. R18-2-317.01.A.
[A.A.C. R18-2-317.02.G]
- E.** A copy of all logs required under Condition XVI.B shall be filed with the Director within 30 days after each anniversary of the permit issuance date. If no changes were made at the source requiring logging, a statement to that effect shall be filed instead.
[A.A.C. R18-2-317.02.I]
- F.** Logging Requirements
[Arizona Administrative Code, Appendix 3]
1. Each log entry required by a change under Condition XVI.B shall include at least the following information:
 - a. A description of the change, including:
 - (1) A description of any process change;
 - (2) A description of any equipment change, including both old and new equipment descriptions, model numbers, and serial numbers, or any other unique equipment ID number; and
 - (3) A description of any process material change.
 - b. The date and time that the change occurred.
 - c. The provisions of Condition XVI.B that authorizes the change to be made with logging.

- d. The date the entry was made and the first and last name of the person making the entry.
2. Logs shall be kept for five (5) years from the date created. Logging shall be performed in indelible ink in a bound log book with sequentially number pages, or in any other form, including electronic format, approved by the Director.

XVII. TESTING REQUIREMENTS

- A.** The Permittee shall conduct performance tests as specified in the permit and at such other times as may be required by the Director.

[A.A.C. R18-2-312.A]

- B.** Operational Conditions during Performance Testing

Performance tests shall be conducted under such conditions as the Director shall specify to the plant operator based on representative performance of the source. The Permittee shall make available to the Director such records as may be necessary to determine the conditions of the performance tests. Operations during periods of start-up, shutdown, and malfunction (as defined in A.A.C. R18-2-101) shall not constitute representative conditions of performance tests unless otherwise specified in the applicable standard.

[A.A.C. R18-2-312.C]

- C.** Performance Tests shall be conducted and data reduced in accordance with the test methods and procedures contained in the Arizona Testing Manual unless modified by the Director pursuant to A.A.C. R18-2-312.B.

[A.A.C. R18-2-312.B]

- D.** Test Plan

At least 14 working days prior to performing a test, the Permittee shall submit a test plan to the Director, which must include the following, in addition to all other applicable requirements, as identified in the Arizona Testing Manual:

[A.A.C. R18-2-312.B]

1. Test duration;
2. Test location(s);
3. Test method(s); and
4. Source operation and other parameters that may affect test results.

- E.** Stack Sampling Facilities

The Permittee shall provide, or cause to be provided, performance testing facilities as follows:

[A.A.C. R18-2-312.E]

1. Sampling ports adequate for test methods applicable to the facility;

2. Safe sampling platform(s);
3. Safe access to sampling platform(s); and
4. Utilities for sampling and testing equipment.

F. Interpretation of Final Results

Each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic mean of the results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs is required to be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control, compliance may, upon the Director's approval, be determined using the arithmetic mean of the results of the other two runs. If the Director or the Director's designee is present, tests may only be stopped with the Director's or such designee's approval. If the Director or the Director's designee is not present, tests may only be stopped for good cause. Good cause includes: forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control. Termination of any test without good cause after the first run is commenced shall constitute a failure of the test. Supporting documentation, which demonstrates good cause, must be submitted.

[A.A.C. R18-2-306.A.3.c and A.A.C. R18-2-312.F]

G. Report of Final Test Results

A written report of the results of performance tests conducted pursuant to 40 CFR 63, shall be submitted to the Director within 60 days after the test is performed. A written report of the results of all other performance tests shall be submitted within 4 weeks after the test is performed, or as otherwise provided in the Arizona Testing Manual. All performance testing reports shall be submitted in accordance with the Arizona Testing Manual and A.A.C. R18-2-312.A.

[A.A.C. R18-2-312.A and B]

H. Extension of Performance Test Deadline

For performance testing required under Condition XVII.A above, the Permittee may request an extension to a performance test deadline due to a force majeure event as follows:

[A.A.C. R18-2-312.J]

1. If a force majeure event is about to occur, occurs, or has occurred for which the Permittee intends to assert a claim of force majeure, the Permittee shall notify the Director in writing as soon as practicable following the date the Permittee first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline. The notification must occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall be given as soon as practicable.

[A.A.C. R18-2-312.J.1]

2. The Permittee shall provide to the Director a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the Permittee proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure event occurs.

[A.A.C. R18-2-312.J.2]

3. The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Director. The Director shall notify the Permittee in writing of approval or disapproval of the request for an extension as soon as practicable.

[A.A.C. R18-2-312.J.3]

4. Until an extension of the performance test deadline has been approved by the Director under Conditions XVII.H.1, 2, and 3 above, the Permittee remains subject to the requirements of Section XVII.

[A.A.C. R18-2-312.J.4]

5. For purposes of this Section XVII, a “force majeure event” means an event that will be or has been caused by circumstances beyond the control of the Permittee, its contractors, or any entity controlled by the Permittee that prevents it from complying with the regulatory requirement to conduct performance tests within the specified timeframe despite the Permittee's best efforts to fulfill the obligation. Examples of such events are acts of nature, acts of war or terrorism, or equipment failure or safety hazard beyond the control of the Permittee.

[A.A.C. R18-2-312.J.5]

XVIII. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

[A.A.C. R18-2-306.A.8.d]

XIX. SEVERABILITY CLAUSE

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force.

[A.A.C. R18-2-306.A.7]

XX. PERMIT SHIELD

Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements identified in the portions of this permit subtitled “Permit Shield”. The permit shield shall not apply to minor revisions pursuant to Condition XV.C of this Attachment and any facility changes without a permit revision pursuant to Section XVI of this Attachment.

[A.A.C. R18-2-317.F, - 320, and -325]

XXI. PROTECTION OF STRATOSPHERIC OZONE

If this source becomes subject to the provisions of 40 CFR Part 82, then the Permittee shall comply with these provisions accordingly.

[40 CFR Part 82]

XXII. APPLICABILITY OF NSPS/NESHAP GENERAL PROVISIONS

For all equipment subject to a New Source Performance Standard or a National Emission Standard for Hazardous Air Pollutants, the Permittee shall comply with all applicable requirements contained in Subpart A of Title 40, Chapter 60 and Chapter 63 of the Code of Federal Regulation.

[40 CFR Part 60 Subpart A and Part 63 Subpart A]

ATTACHMENT "B": SPECIFIC CONDITIONS

I. FACILITY-WIDE REQUIREMENTS

A. Opacity

1. Instantaneous Surveys and Six-Minute Observations

a. Instantaneous Surveys

Any instantaneous survey required by this permit shall be determined by either option listed in Conditions I.A.1.a(1) and (2):

[A.A.C. R18-2-311.b]

(1) Alternative Method ALT-082 (Digital Camera Operating Technique)

(a) The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

(b) The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

(2) EPA Reference Method 9 Certified Observer.

[A.A.C. R18-2-306.A.3.c]

b. Six-Minute Observations

Any six-minute observation required by this permit shall be determined by either option listed in Conditions I.A.1.b(1) and (2):

[A.A.C. R18-2-311.b]

(1) Alternative Method ALT-082 (Digital Camera Operating Technique)

(a) The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

(b) The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

(2) EPA Reference Method 9.

c. The Permittee shall have on site or on call a person certified in EPA Reference Method 9 unless all six-minute Method 9 observations required by this permit are conducted as a six-minute Alternative Method ALT-082 (Digital Camera Operating Technique) and all instantaneous visual surveys required by this permit are conducted as an instantaneous ALT-082 camera survey. Any six-minute Method 9 observation required by this permit can be conducted as a six-minute Alternative Method ALT-082

I. FACILITY-WIDE REQUIREMENTS

and any instantaneous visual survey required by this permit can be conducted as an instantaneous ALT-082 camera survey.

[A.A.C. R18-2-306.A.3.c]

2. Monitoring, Recordkeeping, and Reporting Requirements

[A.A.C. R18-2-306.A.3.c]

a. At the frequency specified in the following sections of this permit, the Permittee shall conduct an instantaneous survey of visible emissions from both process stack sources, when in operation, and fugitive dust sources.

b. If the visible emissions on an instantaneous basis appears less than or equal to the applicable opacity standard, then the Permittee shall keep a record of the name of the observer, the date on which the instantaneous survey was made, and the results of the instantaneous survey.

c. If the visible emissions on an instantaneous basis appears greater than the applicable opacity standard, then the Permittee shall immediately conduct a six-minute observation of the visible emissions.

(1) If the six-minute observation of the visible emissions is less than or equal to the applicable opacity standard, then the Permittee shall record the name of the observer, the date on which the six-minute observation was made, and the results of the six-minute observation.

(2) If the six-minute observation of the visible emissions is greater than the applicable opacity standard, then the Permittee shall do the following:

(a) Adjust or repair the controls or equipment to reduce opacity to less than or equal to the opacity standard;

(b) Record the name of the observer, the date on which the six-minute observation was made, the results of the six-minute observation, and all corrective action taken; and

(c) Report the event as an excess emission for opacity in accordance with Condition XII.A of Attachment "A".

(d) Conduct another six-minute observation to document the effectiveness of the adjustments or repairs completed.

B. The Permittee shall evaluate all changes at the collocated Align facility and apply for any necessary permit revisions, in accordance with the requirements of A.A.C. R18-2-319 and A.A.C. R18-2-320.

[A.A.C. R18-2-306.A.2]

C. Recordkeeping and Reporting Requirements

1. Deviations from the following Attachment “B” permit conditions shall be promptly reported in accordance with Condition XII.B.2 of Attachment “A”:
[A.A.C. R18-2-306.A.5.b]
 - a. Condition II.C.3.a
 - b. Condition III.B.2.b(2)
 - c. Condition VI.B.3.b
2. The Permittee shall maintain, on-site, records of the manufacturer supplied operations and maintenance instructions or Operation and Maintenance Plan for minimizing emissions for all equipment identified in Attachment “D”.
[A.A.C. R18-2-306.A.4]
3. The Permittee shall submit reports of all monitoring activities required in Attachment “B” along with the compliance certifications required by Section VII of Attachment “A.”
[A.A.C. R18-2-306.A.5]

II. FEED MILL AND CONCENTRATED ANIMAL FEEDING OPERATION REQUIREMENTS

A. Applicability

This Section applies to bucket elevators, hammer mills, silos, screw conveyors, conveyor transfer points, and the concentrated animal feeding operation.

B. Particulate Matter (PM)

1. Emission Limitations/Standards

The Permittee shall not cause, allow or permit the discharge of particulate matter, into the atmosphere in any one hour from any process source in total quantities in excess of the amounts calculated by one of the following equations:

- a. For process sources having a process weight rate of 60,000 pounds per hour (30 tons per hour) or less, the maximum allowable emissions shall be determined by the following equation:

$$E = 4.10P^{0.67}$$

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

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 process weight rate greater than 60,000 pounds per hour (30 tons per hour), the maximum allowable emissions shall be determined by the following equation:

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

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

where “E” and “P” are defined as indicated in Condition II.B.1.a.

2. Permit Shield

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

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

C. Opacity

1. Emission Limitation

- 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. Air Pollution Control Requirements

All material transfer points, except loading, unloading of materials, bucket elevators and silos, shall be enclosed at all times to minimize any visible emissions.

[A.A.C. R18-2-306.A.2 and -331.A.3.e]

[Material permit conditions are indicated by underline and italics]

3. 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]

4. 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.3 and C.

D. Gaseous Emissions

1. Operational Limitations

a. Materials including solvents or other volatile compounds, paints, acids, alkalis, 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]

c. 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]

2. Permit Shield

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

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

E. Hydrogen Sulfide (H₂S) Emissions

1. Emissions Limitations and Standards

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

The Permittee shall not allow H₂S 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 averaging period of 30 minutes or more.

2. Permit Shield

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

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

III. INTERNAL COMBUSTION ENGINES

A. Applicability

This Section applies to ICEs listed in Equipment List, Attachment “D”.

B. Existing Source Requirements

1. Applicability

The Section applies to the ICEs marked as ‘No’ under the New Source Performance Standards (NSPS) Applicable column in the Equipment List, Attachment “D”.

2. Particulate Matter & Opacity

a. Emission Limitations and Standards

[A.A.C. R18-2-719.C.1]

- (1) The Permittee shall not cause, allow or permit the emission of PM, caused by combustion of fuel in excess of the amounts calculated by the following equation:

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

Where:

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

Q = the heat input in million BTU per hour.

- (2) For the purpose 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) Opacity

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

III. INTERNAL COMBUSTION ENGINES

- (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 percent opacity.
 - (b) Visible emissions when starting cold equipment shall be exempt from this requirement for the first 10 minutes.
- b. Monitoring, Reporting, and Recordkeeping [A.A.C. R18-2-306.A.3.c]
- (1) The Permittee shall maintain a record of the daily lower heating value of the fuel fired in the ICEs. This may be accomplished by maintaining on record a copy of that part of the contract with the vendor that specifies the lower heating value of the fuel.
 - (2) A certified EPA Reference Method 9 observer shall conduct a monthly survey of visible emissions emanating from the ICE when in operation in accordance with Condition I.A.
- c. Permit Shield [A.A.C.R18-2-325]

Compliance with the conditions of this Part shall be deemed compliance with A.A.C.R18-2-719.B, C.1, and E.

3. Sulfur Dioxide (SO₂)

- a. Emission Limitations and Standards
- (1) The Permittee shall not cause to emit more than 1.0 pound of sulfur dioxide per million Btu heat input when low sulfur oil is fired. [A.A.C. R18-2-719.F]
 - (2) The Permittee shall not fire high sulfur oil (greater than 0.9 percent sulfur) in the ICE. [A.A.C. R18-2-719.H]
- b. Monitoring, Reporting, and Recordkeeping [A.A.C.R18-2-306.A.3.c]

The Permittee shall keep records of fuel supplier certification including the following information:

- (1) The name of the diesel supplier;
- (2) The sulfur content of diesel from which the shipment came; and
- (3) The method used to determine the sulfur content of the diesel.

c. Permit Shield

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

Compliance with the conditions of this Part shall be deemed compliance with A.A.C.R18-2-719.F and H.

C. New Source Performance Standards (NSPS) Subpart III Requirements

1. Applicability

This Section applies to the ICE marked as 'Yes' under the NSPS Applicable column in the Equipment List, Attachment "D".

2. Operating Requirements

a. The Permittee shall operate and maintain the ICE and the control device according to the manufacturer's written instructions. A copy of the instructions or procedures shall be kept onsite and made available to ADEQ upon request.

[40 CFR 60.4211(a)(1) and A.A.C. R18-2-306.A.3]

b. The Permittee shall only change those emission related settings that are permitted by the manufacturer.

[40 CFR 60.4211(a)(2)]

c. The Permittee shall meet the applicable requirements of 40 CFR Part 1068.

[40 CFR 60.4211(a)(3)]

3. Fuel Requirements

[40 CFR 60.4207(b)]

The Permittee shall use diesel fuel in the ICE that meets the requirements of 40 CFR 80.510(b) and listed below:

a. Sulfur content: 15 ppm maximum; and

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

4. Emission Limitations and Standards

[40 CFR 60.4205(a)]

The Permittee shall comply with the following emission standards:

a. Particulate Matter

The Permittee shall not cause or allow to emit more than 0.40 grams of particulate matter per horsepower-hour.

b. Nitrogen Dioxide (NO_x)

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The Permittee shall not cause or allow to emit more than 6.9 grams of NO_x per horsepower-hour.

c. Carbon Monoxide

The Permittee shall not cause or allow to emit more than 8.5 grams of carbon monoxide per horsepower-hour.

d. Hydrocarbon Emissions

The Permittee shall not cause or allow to emit more than 1.0 grams of hydrocarbons per horsepower-hour

5. Monitoring and Record Keeping Requirements

The Permittee of a stationary compression ignition internal combustion engine that is required to comply with the Conditions III.D.2 to III.D.4 shall demonstrate compliance according to one of the methods specified below:

a. Purchasing an engine certified to emission standards for the same model year and maximum engine power as described in 40 CFR parts 1039 and 1042, as applicable. The engine shall be installed and configured according to the manufacturer's specifications.

[40 CFR 60.4211(b)(1)]

b. 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.

[40 CFR 60.4211(b)(2)]

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

[40 CFR 60.4211(b)(3)]

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

[40 CFR 60.4211(b)(4)]

e. 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)(5)]

f. The Permittee shall keep records of fuel supplier specifications. The specifications shall contain name of the supplier, sulfur content, and cetane index or aromatic content in the fuel. These records shall be made available to ADEQ upon request.

[A.A.C. R18-2-306.A.3.c]

- g. The Permittee shall maintain a copy of engine certifications or other documentation demonstrating that 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]

6. Testing Requirements

[40 CFR 60.4212]

The Permittee shall conduct performance tests according to 40 CFR 60.4212.

7. Permit Shield

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

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 60.4205(a), 4207(b), 4211(a)(1), (2), (3), (b), and 4212.

D. ICES Subject to National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ

1. Applicability

- a. This Section applies to the ICES marked as 'Yes' under the NESHAP Applicable column in the Equipment List, Attachment "D".

[40 CFR 63.6590(a)(1)(iii) and (a)(2)(iii)]

- b. The Permittee shall comply with the terms of this Section no later than May 3, 2013 for ICES covered in Condition III.C.

[40 CFR §63.6595(a)(1)]

2. Operating Limitations

- a. The Permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first. If the Permittee prefers to extend the oil change requirement, an oil analysis program described in Condition III.D.2.d shall be completed.

[40 CFR 63.6603(a); Table 2d of 40 CFR Part 63 Subpart ZZZZ; 63.6625(i)]

- b. The Permittee shall inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first;

[40 CFR 63.6603(a); Table 2d of Subpart ZZZZ]

- c. The Permittee shall inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[40 CFR 63.6603(a); Table 2d of 40 CFR Part 63 Subpart ZZZZ]

- d. If the Permittee prefers to extend the oil change requirements specified in Condition III.D.2.a, an oil analysis program shall be performed. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity and water content. The condemning limits for these parameters are as follows:

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- Total Base Number: changed less than 30 percent of Total Base Number of oil when new;
- Viscosity: changed more than 20 percent from the viscosity of oil when new;
- Water Content: changed more than 0.5 percent by volume.

If all of the above limits are not exceeded, the Permittee is not required to change the oil. If any of the above limits are exceeded, the Permittee shall change the oil within 2 days of receiving the results of the analysis or before commencing operation, whichever is later. The analysis program shall be part of the maintenance plan for the operation of the engine.

[40 CFR 63.6625(i)]

- e. At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.6605(b)]

3. Recordkeeping and Reporting Requirements

- a. The Permittee shall keep records of the maintenance conducted on the CI RICE that demonstrates operation and maintenance of the CI RICE in accordance with your maintenance plan.
- b. The Permittee shall keep records of the parameters that are analyzed and the results of the oil analysis, if any, and the oil changes for the engine.
- c. The Permittee shall, unless otherwise indicated, submit all reports required under this Attachment along with the annual compliance certification requirement specified in Attachment “A” of this general permit.

[40 CFR 63.6655(e)]

[40 CFR 63.6625(i)]

[40 CFR 63.6650(b)]

4. Compliance Requirements

The Permittee shall be in compliance with the applicable limitations at all times.

[40 CFR 63.6605(a)]

5. Permit Shield

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

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR Part 63.6590 (a)(1)(iii), (a)(2)(iii), 6595 (a)(1), 6603(a), 6605(a), 6605(b), 63.6625(i), 6650 (b), 6655(e), and Table 2d.

IV. HEATERS

A. Applicability

This Section applies to the heaters at the facility.

B. Operational Requirements

1. The Permittee shall maintain a record of all heaters at the facility, including those stored as replacement units. When a new heater is brought on-site, or a heater is decommissioned, the Permittee shall keep records of the following:

[A.A.C. 18-2-306.A.3.c and 317.02.B.2]

- a. Capacity and serial number of the heater to be decommissioned, and the date the equipment is decommissioned.
- b. Capacity and serial number of any new heater brought on-site, and the date such equipment is brought on-site.
- c. The date the log was made and the first and last name of the person making the log.

2. The records required in Condition IV.B.1 shall be made available to ADEQ upon request.

[A.A.C. 18-2-306.A.3.c]

C. Fuel Limitations

1. Fuel Limitations

[A.A.C. R18-2-306.A.2]

- a. The Permittee shall only fire propane fuel in the heaters.
- b. The Permittee shall not burn more than 1,000,000 gallons of liquid propane in any rolling 12-month period, cumulative for all heaters at the facility.

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 IV.C.1.b.

[A.A.C. R18-2-306.A3.c]

D. Particulate Matter

1. Emission Limitations/Standards

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

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

- (1) 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:

$$E = 4.10P^{0.67}$$

Where:

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

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

- (2) 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:

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

E and P are defined in Condition IV.D.1.a(1).

- 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 the conditions of this Part shall be deemed compliance with A.A.C. R18-2-730.A.1 and B.

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 the conditions of this Part shall be deemed compliance with A.A.C. R18-2-730.D and G.

V. GASOLINE STORAGE AND DISPENSING

A. Applicability

1. This Section applies to the following:

a. Gasoline Dispensing Facilities (GDFs), Storage tanks at the GDFs listed in Equipment List, Attachment “D”, associated equipment components in vapor or liquid gasoline service, pressure/vacuum vents on gasoline storage tanks, and equipment necessary to unload product from cargo tanks into storage tanks at GDFs. The equipment used for the refueling of motor vehicles is not covered.

[40 CFR 63.11111 (a), (b), and 63.11112(a)]

b. Each gasoline cargo tank during the delivery of product to a GDF.

[40 CFR 63.11111(a)]

2. Definition of Monthly Throughput

Monthly throughput means the total volume of gasoline that is loaded into, or dispensed from, all gasoline storage tanks at each GDF during a month. Monthly throughput is calculated by summing the volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the current day, plus the total volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the previous 364 days, and then dividing that sum by 12.

[40 CFR 63.11132]

3. The equipment associated with this Section is subject to the NESHAP General Provisions, as described in Table 3 to 40 CFR 63, Subpart CCCCCC.

[Table 3 of 40 CFR Subpart 63 Subpart CCCCCC]

B. Operating Limitations

1. GDFs

a. The Permittee shall limit the gasoline monthly throughput to less than 10,000 gallons. Monthly throughput shall be determined according to Condition V.A.2.

[A.A.C. R18-2-306.A.2]

b. 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:

(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 cover having 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.

[40 CFR 63.11116(a)]

c. 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)]

d. If any of the GDFs referenced above becomes subject to additional control measures in 40 CFR 63, Subpart CCCCCC, the Permittee shall comply with the new applicable provisions within 3 years of the GDF unit becoming subject to the control requirements.

[40 CFR 63.11113(c)]

2. Storage Tanks

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 the release of organic contaminants into the atmosphere.

[A.A.C. R18-2-710.D]

3. Monitoring and recordkeeping requirements

a. The Permittee shall, for the gasoline storage tanks, 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]

VI. FUGITIVE DUST REQUIREMENTS

- b. If the gasoline is stored in a storage vessel other than one equipped with a vapor recovery system or its equivalent and the true vapor pressure is greater than 470 mm Hg (9.1 psia), the Permittee shall record the average monthly temperature, and true vapor pressure of gasoline at such temperature.

[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 temperature 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]

4. Permit Shield

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

Compliance with the conditions of this Part shall be deemed compliance with 40 CFR 63.11111 (a), (b), 11112 (a), 11113 (c), 11116 (a), (b), 11132, A.A.C. R18-2-710.B, D, and E.

C. Opacity

1. Emission Limitations/Standards

[A.A.C. R18-2-702.B]

The opacity of any plume or effluent from the storage tanks shall not be greater than 20 percent.

2. 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.

VI. FUGITIVE DUST REQUIREMENTS

A. Applicability

Section VI applies to any non-point source of fugitive dust in the facility.

B. Particulate Matter and Opacity

Open Areas, Roadways & Streets, Storage Piles, and Material Handling

1. Emission Limitations/Standards

- a. Opacity of emissions from any fugitive dust non-point source shall not be greater than 40%.

[A.A.C. R18-2-614]

- b. The Permittee shall employ the following reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne:

- (1) Keep dust and other types of air contaminants to a minimum in an open area where construction operations, repair operations, demolition activities, clearing operations, leveling operations, or any earth moving or excavating activities are taking place, by good modern practices such as using an approved dust suppressant or adhesive soil stabilizer, paving, covering, landscaping, continuous wetting, detouring, barring access, or other acceptable means;

[A.A.C. R18-2-604.A]

- (2) Keep dust to a minimum from driveways, parking areas, and vacant lots where motor vehicular activity occurs by using an approved dust suppressant, or adhesive soil stabilizer, or by paving, or by barring access to the property, or by other acceptable means;

[A.A.C. R18-2-604.B]

- (3) Keep dust and other particulates to a minimum by employing dust suppressants, temporary paving, detouring, wetting down or by other reasonable means when a roadway or alley is used, repaired, constructed, or reconstructed;

[A.A.C. R18-2-605.A]

- (4) Take reasonable precautions, such as wetting, applying dust suppressants, or covering the load when transporting material likely to give rise to airborne dust. Earth or other material that is deposited by trucking or earth moving equipment shall be removed from paved streets by the person responsible for such deposits;

[A.A.C. R18-2-605.B]

- (5) Take reasonable precautions, such as the use of spray bars, wetting agents, dust suppressants, covering the load, and hoods when crushing, screening, handling, transporting or conveying of

VII. OTHER PERIODIC ACTIVITIES

materials or other operations likely to result in significant amounts of airborne dust;

[A.A.C. R18-2-606]

- (6) Take reasonable precautions such as chemical stabilization, wetting, or covering when organic or inorganic dust producing material is being stacked, piled, or otherwise stored;

[A.A.C. R18-2-607.A]

- (7) Operate stacking and reclaiming machinery utilized at storage piles at all times with a minimum fall of material, or with the use of spray bars and wetting agents;

[A.A.C. R18-2-607.B]

- (8) Any other method as proposed by the Permittee and approved by the Director.

[A.A.C. R18-2-306.A.3.c]

2. Air Pollution Control Requirements

Unpaved Road and Storage Piles

Water, or an equivalent control, shall be used to control visible emissions from unpaved roads and storage piles.

[A.A.C. R18-2-306.A.2 and -331.A.3.d]

[Material Permit Condition is indicated by underline and italics]

3. Monitoring and Recordkeeping Requirements

- a. The Permittee shall maintain records of the dates on which any of the activities listed in Condition VI.B.1.b above were performed and the control measures that were adopted.

[A.A.C. R18-2-306.A.3.c]

- b. Opacity Monitoring Requirements

Each month, the Permittee shall monitor visible emissions from fugitive sources in accordance with Condition I.A.

[A.A.C. R18-2-306.A.3.c]

C. Permit Shield

Compliance with Section VI shall be deemed compliance with A.A.C. R18-2-604, -605, -606, 607, and -614.

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

VII. OTHER PERIODIC ACTIVITIES

A. Abrasive Blasting

1. Particulate Matter and Opacity

a. Emission Limitations/Standards

The Permittee shall not cause or allow sandblasting or other abrasive blasting without minimizing dust emissions to the atmosphere through the use of good modern practices. Good modern practices include:

[A.A.C. R18-2-726]

- (1) Wet blasting;
- (2) Effective enclosures with necessary dust collecting equipment; or
- (3) Any other method approved by the Director.

b. Opacity

The Permittee shall not cause, allow or permit visible emissions from sandblasting or other abrasive blasting operations in excess of 20% opacity.

[A.A.C. R18-2-702.B.3]

2. Monitoring and Recordkeeping Requirement

Each time an abrasive blasting project is conducted, the Permittee shall make a record of the following:

[A.A.C. R18-2-306.A.3.c]

- a. The date the project was conducted;
- b. The duration of the project; and
- c. Type of control measures employed.

3. Permit Shield

Compliance with Condition VII.A.1.a shall be deemed compliance with A.A.C. R18-2-702.B.3 and -726.

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

B. Use of Paints

1. Volatile Organic Compounds

a. Emission Limitations/Standards

While performing spray painting operations, the Permittee shall comply with the following requirements:

- (1) The Permittee shall not conduct or cause to be conducted any spray painting operation without minimizing organic solvent emissions. Such operations, other than architectural coating and

VII. OTHER PERIODIC ACTIVITIES

spot painting, shall be conducted in an enclosed area equipped with controls containing no less than 96 percent of the overspray.
[A.A.C.R18-2-727.A]

- (2) The Permittee or their designated contractor shall not either:
- (a) Employ, apply, evaporate, or dry any architectural coating containing photochemically reactive solvents for industrial or commercial purposes; or
 - (b) Thin or dilute any architectural coating with a photochemically reactive solvent.
[A.A.C.R18-2-727.B]
- (3) For the purposes of Condition VII.B.1.a(1), a photochemically reactive solvent shall be any solvent with an aggregate of more than 20 percent of its total volume composed of the chemical compounds classified in Condition VII.B.1.a(2), or which exceeds any of the following percentage composition limitations, referred to the total volume of solvent:
[A.A.C.R18-2-727.C]
- (a) A combination of the following types of compounds having an olefinic or cyclo-olefinic type of unsaturation-hydrocarbons, alcohols, aldehydes, esters, ethers, or ketones: 5 percent.
 - (b) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene: 8 percent.
 - (c) A combination of ethylbenzene, ketones having branched hydrocarbon structures, trichloroethylene or toluene: 20 percent.
- (4) Whenever any organic solvent or any constituent of an organic solvent may be classified from its chemical structure into more than one of the groups of organic compounds described in Condition VII.B.1.a(3), it shall be considered to be a member of the group having the least allowable percent of the total volume of solvents.
[A.A.C.R18-2-727.D]

b. Monitoring and Recordkeeping Requirements

- (1) Each time a spray painting project is conducted, the Permittee shall make a record of the following:
- (a) The date the project was conducted;

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- (b) The duration of the project;
 - (c) Type of control measures employed;
 - (d) Safety Data Sheets (SDS) for all paints and solvents used in the project; and
 - (e) The amount of paint consumed during the project.
 - (2) Architectural coating and spot painting projects shall be exempt from the recordkeeping requirements of Condition VII.B.1.b(1).
[A.A.C. R18-2-306.A.3.c]
- c. Permit Shield

Compliance with Condition VII.B.1.a shall be deemed compliance with A.A.C.R18-2-727.
[A.A.C.R18-2-325]
- 2. Opacity
 - a. Emission Limitation/Standard

The Permittee shall not cause, allow or permit visible emissions from painting operations in excess of 20% opacity.
[A.A.C. R18-2-702.B.3]
 - b. Permit Shield

Compliance with Condition VII.B.2.a shall be deemed compliance with A.A.C.R18-2-702.B.3.
[A.A.C. R18-2-325]
- C. Demolition/Renovation - Hazardous Air Pollutants
 - 1. Emission Limitation/Standard

The Permittee shall comply with all of the requirements of 40 CFR 61 Subpart M (National Emissions Standards for Hazardous Air Pollutants - Asbestos).
[A.A.C. R18-2-1101.A.12]
 - 2. Monitoring and Recordkeeping Requirement

The Permittee shall keep all required records in a file. The required records shall include the “NESHAP Notification for Renovation and Demolition Activities” form and all supporting documents.
[A.A.C. R18-2-306.A.3.c]
 - 3. Permit Shield

VII. OTHER PERIODIC ACTIVITIES

Compliance with the Condition VII.C.1 shall be deemed compliance with A.A.C. R18-2-1101.A.12.

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

ATTACHMENT "C": ODOR AND DUST CONTROL PLANS

I. FACILITY OPERATIONS AND PROCESSES

A. Production Buildings:

The farm is a farrow-to-finish operation with 24 individual isolation, gilt development, sow, nursery, finishing, and wean to finish units, as follows:

1. The isolation unit consists of three (3) barns with a total capacity of 2250 pig spaces;
2. Each of the five (5) sow units consist of five (5) barns each with 2750 pig spaces per unit;
3. The gilt development unit consists of one (1) barn with 1300 pig spaces;
4. The six (6) nursery units have a total 13 barns with a capacity of 3000 pig spaces per barn;
5. The 12 finishing units have a total of 89 barns with 1000 pig spaces per barn; and
6. One (1) wean-finish unit that consists of 13 barns with 2200 pig spaces per building.

B. Collection and Transfer:

All units except for the isolation unit shall have shallow under-floor pits which empty into evaporative lagoons for storage and treatment. The sow, nursery, and finishing units shall utilize automated recycle water flush systems which are flushed regularly. The gilt development and wean to finish units shall utilize recycle water pull-plug systems which are emptied regularly. Treated effluent shall be used for flush water and to recharge storage pull-plug pits. The isolation unit shall have a gutter system that is flushed with fresh water regularly into an evaporative lagoon. Effluent shall be transferred from the barns to the lagoons via underground gravity flow sewer lines with plumbing clean-outs.

C. Treatment and Storage:

All lagoons shall be lined with 40 mm synthetic liners or engineered clay. Effluent and process wastewater from each barn shall be transferred to, treated in, and stored in evaporative lagoons with aerobic liquid covers. Solid materials shall be settled to the bottom, where it is broken down through natural biological processes.

A biological treatment material may be added to enhance biological activity and stabilize effluent, process wastewater, and residual solids.

D. Mortality Management:

Mortalities from each unit shall be picked up daily via an internal truck. Mortalities shall be transferred into a specially sealed over-the-road transport container at a designated load-out area, and then hauled to a local landfill via an external truck.

E. Sludge Accumulation:

Solids and sludge may accumulate as a product of the treatment and stabilization process. Solids and sludge accumulation shall be monitored and evaluated. Solids shall be removed and handled on-site as needed to maintain the required volumes for effluent and process wastewater treatment.

II. ODOR CONTROL METHODS

A. Swine Confinement Structures:

1. Adequate Ventilation

Indoor environments shall be maintained to provide a comfortable and healthy environment for the animals. The following technologies and work practices shall be provided and employed in all existing structures to ensure adequate ventilation and efficient air movement to reduce gas and odor, remove moisture, control temperature, and keep the animals clean:

- a. Natural ventilation with drop curtain sides and mechanical ventilation fans: Drop curtains shall 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 shall be adjusted and maintained to direct air into the room to provide good air distribution and mixing. Fans shall be staged to control indoor air temperatures based on production guidelines, animal performance, and animal comfort.

2. Dust Management

The following technologies and work practices shall be provided and employed to ensure dust is controlled and managed to minimize the amount of dust in the confinement structure for the health of the animals:

- a. Pens shall be maintained to keep the animals clean and comfortable. The following work practices shall be conducted to ensure that the animals remain clean:
 - (1) Pens, floors, and walls shall be cleaned by washing with water between animal groups to remove dust and manure accumulations.

II. ODOR CONTROL METHODS

- (2) 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.
 - (3) Farrowing pens with young piglets shall be cleaned daily to maintain a clean environment.
- b. No bedding shall be used in this production facility. Slotted flooring shall be used to remove manure and wastewater from the animal production area.
 - c. Oil shall be added to the feed rations to minimize dust during feed handling and consumption.
 - d. 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 barns shall be hand fed in individual sow feeders for the first two to three days then transitioned to a fully enclosed automatic ad-lib feeder. Feed systems shall be operated and maintained to minimize dust. Feed downspouts shall be designed to reduce feed drop distance and minimize dust release.
 - e. Fully enclosed 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.
 - f. 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.
 - g. 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.
3. Effluent Management

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

II. ODOR CONTROL METHODS

- 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 for 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 pull-plug methods. Treated effluent shall be recycled 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, control manure accumulations, and provide consistent loading of the treatment lagoons.
- 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. Where possible, 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.
- j. Solids collected during barn cleaning shall be stacked in a way to minimize surface area contact with the air when placed outside of the buildings for collection.
- k. Solids collected during barn cleaning which are stacked outside of the buildings during cleaning shall be removed as soon as cleaning of the complex has been completed.

B. Effluent Collection, Storage, and Treatment Systems:

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

1. Storage and Treatment System

- a. A lagoon shall be used to collect, store, and treat the effluent and process wastewater generated from the production buildings.
- b. 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 where practicable to manage and minimize the emission of odorous materials from the treatment and storage systems.
- d. Sewer lines into the lagoons shall be designed and maintained to minimize the emission of odorous materials during lagoon loading. The sewer lines shall be maintained to promote efficient discharge of influent.

2. 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 minimize odors by maintaining a volatile solid loading rate.
- b. The Permittee shall utilize existing building structures, land formations, and vegetation to screen and minimize the emission of potential odorous materials.
- c. A liquid cover where practicable is maintained to manage and minimize the emission of odorous materials from the treatment and storage systems.
- d. The Permittee shall maintain transfer and inlet pipes to minimizing agitation of the water surface during loading to reduce the release of odorous materials to the atmosphere.

3. 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.

4. Solids Removal

Solids may be removed from a lagoon and placed into a solid drying bed. Solids shall be removed from the lagoon and placed in the drying bed in a way which minimizes agitation to minimize odor emissions. Solids shall be dried as quickly as possible and raked or turned as needed to aid in the drying process to 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:

1. Off-site Landfill

- a. Mortalities shall be removed from the buildings within 24 hours.
- b. Mortalities shall be never transferred by, stored by, or visible from the roadside.
- c. Mortalities shall be collected and transported to a central on-farm load-out location for transfer to a specially sealed over-the-road transport container.
- d. Mortalities shall be picked up and transported off-site by a commercial land fill truck in a specially sealed over-the-road transport container.

ATTACHMENT “D”: EQUIPMENT LIST

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	INSTALLATION/ DATE OF MFG.	A.A.C. / NSPS / NESHAP
Bucket Elevator	Grain Belt	N/A	120 tons/hour	N/A	BE-1	Mid 1970’s	A.A.C. R18-2-730
Bucket Elevator	Universal	D-3	72 tons/hour	N/A	BE-2	2011	A.A.C. R18-2-730
Bucket Elevator	Universal	D-3	72 tons/hour	N/A	BE-3	Mid 1970’s	A.A.C. R18-2-730
Bucket Elevator	Shlaggel	10-6145FB/ EDI	120 tons/hour	N/A	BE-4	1999	A.A.C. R18-2-730
Bucket Elevator	Universal	D-3	72 tons/hour	N/A	BE-5	Mid 1970’s	A.A.C. R18-2-730
Bucket Elevator	Universal	D-3	72 tons/hour	102103	BE-6	1996	A.A.C. R18-2-730
Hammermill	Champion	15x44	13 tons/hour	102142	HM-1	1991	A.A.C. R18-2-730
Hammermill	Champion	435123	30 tons/hour	N/A	HM-2	1996	A.A.C. R18-2-730
Mixer	Haze + Stoltz	HRDB238-109	48 tons/hour	2688-001	Mixer 1	2000	A.A.C. R18-2-730
Mixer	Haze + Stoltz	HR21178	24 tons/hour	1048	Mixer 2	Mid 1970’s	A.A.C. R18-2-730
Mixing Scale	Haze + Stoltz	N/A	48 tons/hour	N/A	Mixing Scale 1	2000	A.A.C. R18-2-730
Mixing Scale	Haze + Stoltz	N/A	24 tons/hour	N/A	Mixing Scale 2	Mid 1970’s	A.A.C. R18-2-730
Screw Conveyor	N/A	N/A	100 tons/hour	N/A	A-1	Mid 1970’s	A.A.C. R18-2-730
Screw Conveyor	N/A	N/A	100 tons/hour	N/A	A-2	Mid 1970’s	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	INSTALLATION/ DATE OF MFG.	A.A.C. / NSPS / NESHAP
Screw Conveyor	N/A	N/A	100 tons/hour	N/A	A-3	Mid 1970's	A.A.C. R18-2-730
Screw Conveyor	N/A	N/A	126 tons/hour	N/A	A-4	Mid 1970's	A.A.C. R18-2-730
Screw Conveyor	N/A	N/A	36 tons/hour	N/A	A-5	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	121396 cubic feet	N/A	CS-1	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	121396 cubic feet	N/A	CS-2	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	4791 cubic feet	N/A	B-1	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	4791 cubic feet	N/A	B-2	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1159 cubic feet	N/A	B-3	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1159 cubic feet	N/A	B-4	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1159 cubic feet	N/A	B-5	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1159 cubic feet	N/A	B-6	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1159 cubic feet	N/A	B-7	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1159 cubic feet	N/A	B-8	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1159 cubic feet	N/A	B-9	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1159 cubic feet	N/A	B-10	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	4791 cubic feet	N/A	B-11	Mid 1970's	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	INSTALLATION/ DATE OF MFG.	A.A.C. / NSPS / NESHAP
Silo	N/A	N/A	4791 cubic feet	N/A	B-12	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	2850 cubic feet	N/A	B-13	2011	A.A.C. R18-2-730
Silo	N/A	N/A	2850 cubic feet	N/A	B-14	2011	A.A.C. R18-2-730
Silo	N/A	N/A	2309 cubic feet	N/A	B-15	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	2309 cubic feet	N/A	B-16	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1200 cubic feet	N/A	B-17	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1200 cubic feet	N/A	B-18	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1200 cubic feet	N/A	B-19	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1200 cubic feet	N/A	B-20	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1200 cubic feet	N/A	B-21	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1200 cubic feet	N/A	B-22	Mid 1970's	A.A.C. R18-2-730
Silo	N/A	N/A	1200 cubic feet	N/A	B-23	Mid 1970's	A.A.C. R18-2-730
Surge Chamber	Haze + Stoltz	N/A	48 tons/hour	N/A	Surge Chamber 1	Mid 1970's	A.A.C. R18-2-730
Surge Chamber	Haze + Stoltz	N/A	24 tons/hour	N/A	Surge Chamber 2	Mid 1970's	A.A.C. R18-2-730
Generator	Caterpillar	C9PKGG	448 HP	C9E00184	Well No. 7	April, 2006	NSPS Subpart IIII and NESHAP Subpart ZZZZ

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	INSTALLATION/ DATE OF MFG.	A.A.C. / NSPS / NESHAP
Generator	Generac	92A04138-S	224 HP	2005652	Booster Station	1992	A.A.C. R18-2-719 and NESHAP Subpart ZZZZ
Generator	Generac	92A04138-S	224 HP	2005653	Well No. 14	1992	A.A.C. R18-2-719 and NESHAP Subpart ZZZZ
Gasoline Storage Tank (Above Ground)	NA	NA	1,000 Gallons	NA	NA	NA	A.A.C. R18-2- 710 and NESHAP Subpart CCCCCC
Gasoline Storage Tank (Above Ground)	F.C. Lowe Welding	NA	2,000 Gallons	NA	NA	NA	A.A.C. R18-2- 710 and NESHAP Subpart CCCCCC

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHAP
	Hired Hand	SS-225-XL	225,000	1,000	NA	H 1	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	H 2	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	56905	H 3	1995	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	H 4	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	H 5	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	H 6	NA	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHP
HEATERS	Hired Hand	SS-225-XL	225,000	1,000	NA	H 7	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	H 8	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	161783	H 9	2004	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	161781	H 10	NA	A.A.C. R18-2-730
	LB White	AW 060	60,000	240	M59579	1	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	2	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	3	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	4	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	5	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	6	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	7	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	182178	8	2006	A.A.C. R18-2-730
	LB White	AW 060	60,000	240	NA	1	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	2	1993	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	3	NA	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHP
HEATERS	Hired Hand	SS-225-XL	225,000	1,000	NA	4	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	5	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	6	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	7	1995	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	182182	8	NA	A.A.C. R18-2-730
	LB White	AW 060	60,000	240	M55973	1	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	2	1993	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	3	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	4	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	5	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	6	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	7	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	8	NA	A.A.C. R18-2-730
	LB White	AW 060	60,000	240	M61029	1	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	64764	2	1992	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHP
	Hired Hand	SS-225-XL	225,000	1,000	NA	3	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	4	1995	A.A.C. R18-2-730
HEATERS	Hired Hand	SS-225-XL	225,000	1,000	NA	5	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	6	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	7	1996	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	8	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	1	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	2	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	3	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	4	1993	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	5	1993	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	6	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	7	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	182179	8	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	1	NA	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHP
	Hired Hand	SS-225-XL	225,000	1,000	NA	2	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	3	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	4	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	5	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	6	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	7	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	8	NA	A.A.C. R18-2-730
	LB White	AW 060	60,000	240	57937	1	1995	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	57932	2	1995	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	4792	3	1993	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	4	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	60970	5	1993	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	6	1993	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	96722	7	1993	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	8	1998	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHP
HEATERS	LB White	AW 060	60,000	240	97936	1	1995	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	4704	2	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	57894	3	1995	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	4	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	57938	5	1995	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	57935	6	1995	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	60970	7	1995	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	8	NA	A.A.C. R18-2-730
	LB White	AW 060	60,000	240	M55975	1	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	59194	2	1995	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	56909	3	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	57892	4	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	56910	5	1995	A.A.C. R18-2-730
Hired Hand	SS-225-XL	225,000	1,000	56919	6	1995	A.A.C. R18-2-730	
Hired Hand	HH-SS-225	225,000	1,000	NA	7	NA	A.A.C. R18-2-730	

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHA P
HEATERS	Hired Hand	HH-SS-225	225,000	1,000	NA	8	NA	A.A.C. R18-2-730
	LB White	AW 060	60,000	240	M55974	1	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	1309	2	1993	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	3	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	4	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	5	1992	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	1391	6	1993	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	4701	7	NA	A.A.C. R18-2-730
	Hired Hand	SS-225-XL	225,000	1,000	NA	8	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	9	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188536	1	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-226	225,000	1,000	188553	2	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-227	225,000	1,000	188552	3	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-228	225,000	1,000	188554	4	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-225	225,000	1,000	56923	1-3A	1995	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHAP
	Hired Hand	HH-XL-226	225,000	1,000	NA	2-3B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-227	225,000	1,000	62805	3-2A	1995	A.A.C. R18-2-730
HEATERS	Hired Hand	HH-XL-228	225,000	1,000	13099	4-2B	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-229	225,000	1,000	NA	5-1A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-230	225,000	1,000	NA	6-1B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-231	225,000	1,000	11082	7-6A	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-232	225,000	1,000	NA	8-6B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-233	225,000	1,000	NA	9-5A	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-234	225,000	1,000	64773	10-5B	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-235	225,000	1,000	NA	11-4A	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-236	225,000	1,000	4699	12-4B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-237	225,000	1,000	64766	13-7A	1996	A.A.C. R18-2-730
	Hired Hand	HH-XL-238	225,000	1,000	1300	14-7B	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-239	225,000	1,000	NA	15-8A	1995	A.A.C. R18-2-730
Hired Hand	HH-XL-240	225,000	1,000	NA	16-8B	1993	A.A.C. R18-2-730	

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHP
	Hired Hand	HH-XL-241	225,000	1,000	56906	17-7A	1995	A.A.C. R18-2-730
	LB White	AW 250	250,000	240	56914	18-7B	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-225	225,000	1,000	NA	1-A	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-226	225,000	1,000	30251	2-B	1994	A.A.C. R18-2-730
	Hired Hand	HH-XL-227	225,000	1,000	56923	3-A	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-228	225,000	1,000	NA	4-B	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-229	225,000	1,000	18078	5-A	1993	A.A.C. R18-2-730
HEATERS	Hired Hand	HH-XL-230	225,000	1,000	4670	6-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-231	225,000	1,000	NA	7-A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-232	225,000	1,000	NA	8-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-233	225,000	1,000	10998	9-A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-234	225,000	1,000	NA	10-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-235	225,000	1,000	64759	11-A	1996	A.A.C. R18-2-730
	Hired Hand	HH-XL-235	225,000	1,000	60973	12-B	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-225	225,000	1,000	NA	1-A	NA	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHP
	Hired Hand	HH-XL-226	225,000	1,000	11016	2-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-227	225,000	1,000	NA	3-A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-228	225,000	1,000	11011	4-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-229	225,000	1,000	11020	5-A	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-230	225,000	1,000	NA	6-B	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-231	225,000	1,000	NA	7-A	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-232	225,000	1,000	4668	8-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-233	225,000	1,000	NA	9-A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-234	225,000	1,000	10997	10-B	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-235	225,000	1,000	NA	11-A	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-236	225,000	1,000	1108	12-B	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-225	225,000	1,000	NA	1-A	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-226	225,000	1,000	NA	2-B	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-227	225,000	1,000	NA	3-A	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-228	225,000	1,000	NA	4-B	1995	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHAP
HEATERS	Hired Hand	HH-XL-229	225,000	1,000	NA	5-A	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-230	225,000	1,000	NA	6-B	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-231	225,000	1,000	NA	7-A	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-232	225,000	1,000	NA	8-B	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-233	225,000	1,000	NA	9-A	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-234	225,000	1,000	NA	10-B	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-235	225,000	1,000	NA	11-A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-236	225,000	1,000	NA	12-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-225	225,000	1,000	NA	1-A	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-226	225,000	1,000	NA	2-B	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-227	225,000	1,000	56928	3-A	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-228	225,000	1,000	NA	4-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-229	225,000	1,000	62806	5-A	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-230	225,000	1,000	56921	6-B	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-231	225,000	1,000	57934	7-A	1995	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHP
	Hired Hand	HH-XL-232	225,000	1,000	57893	8-B	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-233	225,000	1,000	NA	9-A	1992	A.A.C. R18-2-730
HEATERS	Hired Hand	HH-XL-234	225,000	1,000	57895	10-B	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-235	225,000	1,000	NA	11-A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-236	225,000	1,000	53922	12-B	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-225	225,000	1,000	64767	1-A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-226	225,000	1,000	NA	2-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-227	225,000	1,000	NA	3-A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-228	225,000	1,000	NA	4-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-229	225,000	1,000	57939	5-A	1995	A.A.C. R18-2-730
	Hired Hand	HH-XL-230	225,000	1,000	NA	6-B	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-231	225,000	1,000	NA	7-A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-232	225,000	1,000	NA	8-B	1993	A.A.C. R18-2-730
	Hired Hand	HH-XL-233	225,000	1,000	NA	9-A	1992	A.A.C. R18-2-730
	Hired Hand	HH-XL-234	225,000	1,000	NA	10-B	1993	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHAP
	Hired Hand	HH-XL-235	225,000	1,000	NA	11-A	NA	A.A.C. R18-2-730
	Hired Hand	HH-XL-236	225,000	1,000	34768	12-B	1996	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188498	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188496	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	2	2007	A.A.C. R18-2-730
HEATERS	Hired Hand	HH-SS-225	225,000	1,000	188546	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188545	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188543	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188547	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188549	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188550	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188494	1	2007	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHAP
	Hired Hand	HH-SS-225	225,000	1,000	NA	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188493	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188551	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188557	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188555	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188531	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188537	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188542	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188534	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188556	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188532	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188533	2	2007	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHAP
HEATERS	Hired Hand	HH-SS-225	225,000	1,000	188530	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188527	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188528	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188529	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188516	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	1885319	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188515	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188526	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188520	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188522	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188525	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188523	2	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188517	1	2007	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	188518	2	2007	A.A.C. R18-2-730
Hired Hand	HH-SS-225	225,000	1,000	188524	1	2007	A.A.C. R18-2-730	

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHP
	Hired Hand	HH-SS-225	225,000	1,000	188521	2	2007	A.A.C. R18-2-730
HEATERS	Hired Hand	HH-SS-225	225,000	1,000	TBD	1	TBD	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	TBD	2	TBD	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	TBD	1	TBD	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	TBD	2	TBD	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	TBD	1	TBD	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	TBD	2	TBD	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	TBD	1	TBD	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	TBD	2	TBD	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	1	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	1	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	1	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	1	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	2	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	3	NA	A.A.C. R18-2-730

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHP
	Hired Hand	HH-SS-225	225,000	1,000	NA	4	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	5	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	6	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	7	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	8	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	9	NA	A.A.C. R18-2-730
HEATERS	Hired Hand	HH-SS-225	225,000	1,000	NA	10	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	11	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	12	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	13	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	14	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	15	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	16	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	1	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	2	NA	A.A.C. R18-2-730



ATTACHMENT "D": EQUIPMENT LIST

EQUIPMENT TYPE	MAKE	MODEL	MAX. CAPACITY, (BTU/HR)	CFM	SERIAL NUMBER	EQUIPMENT I.D. NUMBER	DATE OF MFG.	A.A.C. / NSPS / NESHAP
	Hired Hand	HH-SS-225	225,000	1,000	NA	3	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	4	NA	A.A.C. R18-2-730
	Hired Hand	HH-SS-225	225,000	1,000	NA	5	NA	A.A.C. R18-2-730