**Maricopa County**
Air Quality Department

AIR QUALITY DEPARTMENT
1001 North Central Avenue
Phoenix, AZ 85004

HICKMAN'S FAMILY FARMS
ATTN: GLENN HICKMAN
6515 S. JACKRABBIT TRAIL
BUCKEYE, AZ 85326

The purpose of the letter is to inform you that the application for a permit revision has been approved and will be incorporated into Air Quality Permit 040136. The applicable Permit Conditions are enclosed with this letter.

If you need assistance with the permit, please contact the Business Assistance Coordinator at 602.506.5102 or contact the undersigned at 602.506.7248. Email communications may be sent to AQPermits@mail.maricopa.gov.

**MARICOPA COUNTY AIR QUALITY DEPARTMENT**

**Engineering and Permitting Division**

**1001 N. Central Avenue, Suite 400, Phoenix, Arizona 85004**
**Phone: (602) 506-6010 Fax: (602) 506-6985**

# AIR QUALITY PERMIT TO OPERATE AND/OR CONSTRUCT

*(As required by Title 49, Chapter 3, Article 2, Section 49-480, Arizona Revised Statutes)*

## ISSUED TO

## Hickman's Egg Ranch
## 32425 W. Salome Highway
## Arlington, 85322

*This air quality permit to operate and/or construct does not relieve the applicant of the responsibility of meeting all air pollution regulations.*

THE PERMITTEE IS SUBJECT TO THE SPECIFIC AND GENERAL CONDITIONS IDENTIFIED IN THIS PERMIT.

| | | | |
|---|---|---|---|
| **PERMIT NUMBER:** | 040136 | **REVISION DATE:** | 06/08/2016 |
| **REVISION NUMBER:** | 2.0.3.0 | **EXPIRATION DATE:** | 02/29/2020 |

Todd Martin

**Todd Martin, Non-Title V Permit Supervisor**

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*Any cited regulatory paragraphs or section numbers refer to the version of the rules and regulations that were in effect on the first date of public notice of the applicable Permit Condition unless specified otherwise. However, in the event the rules and regulations are amended during the term of this Permit, the amended rules and regulations shall apply to this Permit. Whenever the term, Control Officer, is used in this Permit it shall be interpreted to mean, Control Officer or designated representative. Where the term "Rule" appears, it shall be construed to mean "Maricopa County Air Pollution Control Regulations" unless otherwise noted.*

## SPECIFIC CONDITIONS

**1. Prohibition - Open Outdoor Fires:**

The Permittee shall not ignite, cause or permit to be ignited, allow, maintain any open outdoor fire within the limits of Maricopa County without first obtaining a Burn Permit.

[SIP Rule 314 §301]

## CONTROL OF ODORS AND GASEOUS AIR POLLUTANTS

**2. Standards:**

a. No person shall emit gaseous or odorous air contaminants from equipment, operations or premises under his control in such quantities or concentrations as to cause air pollution.

[Rule 320 §300][SIP Rule 32.A]

b. Material Containment Required: Materials including, but not limited to, solvents or other volatile compounds, paints, acids, alkalies, pesticides, fertilizer and manure shall be processed, stored, used and transported in such a manner and by such means that they will not unreasonably evaporate, leak, escape or be otherwise discharged into the ambient air in such quantities or concentrations as to cause air pollutions smells, aromas or stenches commonly recognized as offensive, obnoxious or objectionable to a substantial part of a community. 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.

[Rule 320 §302][ SIP Rule 32.C]

c. Reasonable Stack Height Required: Where a stack, vent or other outlet is at such a level that air contaminants are discharged to adjoining property, the Control Officer may require the installation of abatement equipment or the alteration of such stack, vent, or other outlet to a degree that will adequately dilute, reduce or eliminate the discharge of air contaminants to adjoining property.

[Rule 320 §303] [SIP Rule 32.D]

d. Hydrogen Sulfide ($H_2S$) Limitation: No person shall emit $H_2S$ from any location in such a manner or 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 (ppmv) for any averaging period of 30 minutes or more.

[Rule 320 §304] [SIP Rule 32.E]

**3. $H_2S$ Compliance Demonstration:**

a. Within 90 days of any of the following, the Permittee shall perform a compliance demonstration by conducting a test to monitor $H_2S$ levels:

i. The start-up of the protein plant; or

ii. The receipt of three (3) odor complaints within any 12-month period; or

iii. The receipt of a written request from the Control Officer.

b. The compliance demonstration shall be performed at a location representing the nearest occupied place beyond the premises on which the source of $H_2S$ is located.

c. The Permittee shall perform an additional compliance demonstration within six (6) months of completing the initial demonstration. If the average $H_2S$ concentration of the first two compliance demonstrations is less than 0.03 ppmv, monitoring shall be subsequently conducted on an annual basis. If subsequent $H_2S$ concentrations are less than 0.03 ppmv for two consecutive annual compliance demonstrations, compliance demonstrations will no longer be required. If results from any annual compliance demonstration indicate that the $H_2S$ concentration is greater than 0.03 ppmv, the Permittee shall return to the semi-annual compliance demonstration schedule.

[Rule 320 §304]

d. The Permittee shall submit a report within 30 days of completion of each demonstration to the Control Officer, Attn: Compliance Division Manager, that details the results of each compliance demonstration.

[Rule 220 §302.4]

**PROTEIN PLANT**

**4. Allowable Emissions:**

The Permittee shall not allow VOC emissions into the atmosphere in excess of 1,500 pounds per twelve consecutive month period. The 12-month rolling total emissions shall be calculated monthly by the end of the following month by summing the emissions over the most recent 12 calendar months. The Permittee shall keep this emission record on-site for inspection or submittal upon request.

[Rule 220 §302.2] [Locally Enforceable Only]

**5. Operating Limitations:**

The Permittee shall process no more than 10,000 tons of material in the protein plant per twelve consecutive month period.

[Rule 220 §302.2] [Locally Enforceable Only]

**6. Emission Control Requirements**

The Permittee shall not operate or use any machine, equipment or other contrivance for the reduction of animal or vegetable matter, separately or in combination, unless all gases, vapors and gas-entrained effluents are vented without bypass to the packed bed scrubber, which achieves total reduced sulfur (TRS) compound control efficiency of at least 90% by weight. For the purpose of this Permit, TRS compounds include $H_2S$, dimethyl disulfide, dimethyl sulfide, and methyl mercaptan measured using EPA Method 16. Sodium hydroxide shall be maintained at the concentration specified in the scrubber's O&M Plan and verified during performance testing.

[Rule 320 §301] [SIP Rule 32.B]

**7. Operation and Maintenance (O&M) Plan:**

a. Unless an O&M Plan has previously been submitted and approved, the Permittee shall submit an approvable O&M Plan for the packed bed scrubber to the Control Officer, Attn: Permitting Manager, within 45 days after the issuance date of Revision 2.0.3.0, or within 45 days of the equipment receiving exhaust, in accordance with the Department guidelines. The Permittee shall revise the O&M Plan upon the request of the Control Officer and whenever substantive changes are made to the equipment or plan, in accordance with Department guidelines.

b. The O&M Plan shall specify key system operating parameters, such as temperatures, pressures, pH and/or flow rates, necessary to determine compliance and describe in detail procedures to maintain the scrubber and associated equipment. The Permittee shall monitor, operate and maintain the equipment in accordance with the device's approved O&M Plan.

c. Changes to an existing O&M Plan shall be made by submitting a complete, revised O&M Plan along with a cover letter identifying all changes and the reason for such changes. The Permittee may implement the changes addressed in the revised O&M plan after it submits the revision to the Control Officer. Unless disapproved in writing by the Control Officer, the Permittee shall continue to operate in accordance with the revised O&M plan.

d. If any control device is found to be operating outside a specified range, the Permittee shall immediately take corrective action to bring the device back into the specified operating range or shut down the device and the associated equipment vented to it.

e. If a pattern of excursions, as determined by the Control Officer or the Permittee, of operation outside the specified operating range develops, the Permittee shall submit to the Control Officer for approval a Corrective Action Plan to bring the devices back into the specified operating range. The Plan shall be submitted to the Control Officer, Attn: Compliance Manager, within 30 days of the determination of the existence of excursions.

[Rule 220 §302.4]

**8. Scrubber Performance Test Requirements:**

a. Testing Requirements:

i. The Permittee shall conduct performance tests on the packed bed scrubber within 60 days after the issuance date of Revision 2.0.3.0 or within 60 days after the protein plant has achieved the capability to operate at its maximum production rate on a sustained basis, whichever occurs last. The testing deadline may be extended by the Control Officer for good cause, but in no case shall the testing deadline, including test report submittal, extend beyond 180 days after the permit issuance date or 180 days after the new applicable equipment has achieved the capability to operate at its maximum capacity, whichever occurs last.

ii. The Permittee shall measure the TRS compound concentrations in the scrubber inlet and exhaust streams to demonstrate a minimum TRS compound removal efficiency of 90% by weight, as required by Permit Condition 6. The Permittee shall also measure the VOC concentrations in the scrubber inlet and exhaust streams to quantify hourly VOC emissions, determine the VOC removal efficiency of the scrubber, and demonstrate compliance with all applicable VOC emission limits of these permit conditions.

[Rule 200 §310.1][Rule 270 §401][SIP Rule 27 §A]

b. Testing Criteria: Performance tests shall be conducted and data reduced in accordance with the test methods and procedures specified in the Test Methods section of this permit condition unless otherwise specified by the Control Officer. The Control Officer may specify or approve minor changes in methodology to a reference method, approve the use of an equivalent test method, approve the use of an alternative method that has been determined to be acceptable for demonstrating compliance, or waive the requirement for performance tests because the Permittee has demonstrated by other means that the source is in compliance with the standard.

[Rule 270 §402][SIP Rule 27 §B]

c. Test Methods: Sampling sites and velocity traverse points shall be selected in accordance with EPA Test Method 1or 1A. The gas volumetric flow rate shall be measured in accordance with EPA Test Method 2, 2A, 2C, 2D, 2F, 2G or 19. The dry molecular weight shall be determined in accordance with EPA Test Method 3, 3A or 3B. The stack gas moisture shall be determined in accordance with EPA Test Method 4. These methods must be performed, as applicable, during each test run.

i. TRS compound testing shall be conducted in accordance with EPA Method 16.

ii. VOC testing shall be conducted in accordance with EPA Test Method 25 or 25A. Testing to quantify exempt compounds, such as methane, shall be conducted in accordance with EPA Test Method 18.

[Rule 270 §§301.1, 301.2][SIP Rule 27 §B]

d. Operating Conditions: Performance tests shall be conducted under representative operating conditions and all equipment shall be operated during testing in accordance with the most recently approved O&M Plan or according to its operations manual if no O&M Plan is required. The Permittee shall make available to the Control Officer any records necessary to determine appropriate conditions for performance tests. Operations during periods of startup, shutdown, and equipment malfunction shall not constitute representative conditions for performance tests unless otherwise specified in the applicable

standard or permit conditions.

[Rule 270 §403][SIP Rule 27 §B]

e. Monitoring Requirements: The Permittee shall record all process and control equipment information that is necessary to document operating conditions during the test and explain why the conditions represent normal operation. Operational parameters shall be monitored and recorded at least once every 30 minutes during each of the required test runs and documented in the test report. The operational parameters monitored shall be capable of indicating that the equipment is operating within the permitted limits, both during and after the performance tests.

The Permittee shall record the scrubber pressure drop, scrubber liquid recirculation rate, makeup water flowrate, scrubber liquid pH level, and inlet temperature to the scrubber during the performance test.

[Rule 270 §301.1][SIP Rule 27 §B]

f. Test Protocol Submittal: The Permittee shall submit a separate test protocol for each performance test to the Control Officer for review and approval at least 30 days prior to each performance test unless otherwise specified in the applicable standard or in this permit. The test protocol shall be prepared in accordance with the most recent version of the Department's "Air Quality Performance Test Guidelines for Compliance Determination in Maricopa County." A completed copy of the Department's "Test Protocol Submittal Form" shall accompany each test protocol.

[Rule 270 §301.1][SIP Rule 27 §B]

g. Notice of Start-up: The Permittee shall notify the Control Officer [Attn: Permitting Manager] in writing within 30 after the protein plant has achieved the capability to operate at its maximum capacity.

[Rule 220 §302.23.a(2)][Locally Enforceable Only]

h. Notice of Testing: The Permittee shall notify the Control Officer in writing at least two weeks in advance of the actual date and time of each performance test unless otherwise specified in the applicable standard or in this permit so that the Control Officer may have a representative attend.

[Rule 270 §404][SIP Rule 27 §B]

i. Testing Facilities Required: The Permittee shall install any and all sample ports or platforms necessary to conduct the performance tests, provide safe access to any platforms, and provide the necessary utilities for testing equipment.

[Rule 270 §405][SIP Rule 42]

j. Minimum Testing Requirements: Each performance test shall consist of three separate test runs with each test run being at least one hour in duration unless otherwise specified in the applicable standard or in this permit. The same test methods shall be used simultaneously for both the inlet and outlet measurements, if applicable, or justification for any necessary exceptions shall be provided in the test protocol. Emissions rates, concentrations, grain loadings, and/or efficiencies shall be determined as the arithmetic average of the values determined for each individual test run. Performance tests may only be stopped for good cause, which 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 a performance test without good cause after the first test run has commenced shall constitute a failure of the performance test.

[Rule 270 §406] [SIP Rule 27 §B]

k. Test Report Submittal: The Permittee shall complete and submit a separate test report for each performance test to the Control Officer within 30 days after the completion of testing unless otherwise specified in the applicable standard or in this permit. The test report shall be prepared in accordance with the most recent version of the Department's "Air Quality Performance Test Guidelines for Compliance Determination in Maricopa County." A completed copy of the Department's "Test Report Submittal Form" shall accompany each test report.

[Rule 270 §301.1][SIP Rule 27 §B]

l. Compliance with allowable emission limits and standards shall be determined by the performance tests specified in this permit. If test results do not demonstrate compliance with the requirements of these permit conditions, the Permittee shall make the necessary repairs and/or adjustments to the equipment and demonstrate compliance through retesting. In lieu of retesting, the Permittee may be able to submit an application for a permit revision to establish operational limitations or allowable emission limits based on the equipment's actual performance. Neither option will nullify the fact that test results did not demonstrate compliance with the requirements of the permit conditions or nullify any violations that may result from this noncompliance. In addition to compliance demonstrations, test results shall be used for annual emissions inventory purposes if the Permittee is required to complete an emissions inventory survey.

[Rule 270 §407] [Locally Enforceable Only]

m. Correspondence: All test extension requests, test protocols, test date notifications, and test reports required by this permit shall be submitted to the Control Officer and addressed to the attention of the Performance Test Evaluation Supervisor.

[Rule 270 §301.1][SIP Rule 27 §B]

n. Authority: The above testing requirements represent the minimum level of testing to monitor for compliance with the emission limits in this permit. Nothing in this section shall prevent the Control Officer from requiring additional performance testing as deemed necessary to ensure permit compliance and protection of the public health and welfare.

[Rule 200 §310][Rule 270 §402.5] [Locally Enforceable Only]

**9. Recordkeeping:**

The Permittee shall keep the following records on site and available upon request. The records shall be retained for 5 years and shall be updated each day of operation and include at a minimum the following information:

a. Weight of material fed to the cookers per day.

b. Daily hours cooker exhaust is vented to the packed bed water scrubber.

c. O&M Plan:

i. Monitoring and maintenance records specified in the O&M Plan:

1) Monitoring Records shall consist of an operations log sheet to be completed for every day the process and/or control device is in operation. Operations log sheets shall, at a minimum, contain the following information: equipment identification; date and time of readings; identification of the individual recording the data; operating parameters to be monitored including units of measure, operating limits (upper and lower limits), and locations for recording measurements; measurement frequency; and if applicable, corrective action taken. Account for any periods of operation when the control device was not operating.

2) Maintenance Records shall, at a minimum, contain the following information: equipment identification; date; identification of the individual performing the maintenance check; procedures to be performed including frequency of occurrence; results of inspection (acceptable, nozzle plugged, etc.); and corrective action taken (none, cleaned nozzle, etc.).

ii. Whenever the O&M Plan requires that maintenance be performed, a record shall be made of the maintenance actions taken within 24 hours of maintenance completion.

iii. An explanation shall be recorded for any scheduled maintenance that is not performed during the period designated in the O&M Plan.

d. Records of any process upsets that would cause the release of cooker exhaust gases into the atmosphere. Examples of such upsets would include failure of the blowers in the recirculation of gases in the process or a catastrophic failure of the packed bed scrubber.

e. All records pertaining to the repairs and schedules required to restore the treatment process after upset. The Permittee shall retain records of the operational parameter tests used to ensure proper operation of the process.

[Rule 220 §§302.7, 500] [Rule 100 §504]

## FUEL BURNING EQUIPMENT

**10. Operational Limitations:**

a. The Permittee may only use natural gas, butane and propane as fuels for fuel burning equipment.

b. The Permittee shall burn no more than 800,000 gallons of propane facility-wide per twelve consecutive month period, excluding propane burned in the protein plant boilers.

c. The Permittee shall burn no more than 500,000 gallons of propane per twelve consecutive month period in the protein plant boilers.

[Rule 220 §302.2; Rule 241 §302]

**11. Opacity:**

The Permittee shall not discharge into the ambient air from any single source of emissions any air contaminant, other than uncombined water, in excess of 20% opacity.

[SIP Rule 323 §302][Rule 300 §301]

**12. Limitations – Nitrogen Oxides:**

For fuel burning equipment between 10 and 100 MMBtu/hr, the Permittee shall comply with the following:

a. Establish initial optimal baseline concentrations for $NO_X$ and CO within 90 days of the first usage of the combustion equipment utilizing the initial design burner specifications or manufacturer's recommendations to ensure good combustion practices.

b. Tune the units annually in accordance with good combustion practices or a manufacturer's procedure, if applicable, that will include all of the following at a minimum:

i. Inspect the burner system and clean and replace any components of the burner as necessary to minimize emissions of $NO_X$ and CO;

ii. Inspect the burner chamber for areas of impingement and remove if necessary;

iii. Inspect the flame pattern and make adjustments as necessary to optimize the flame pattern;

iv. Inspect the system controlling the air-to-fuel ratio and ensure that it is correctly calibrated and functioning properly; and

v. Measure the $NO_X$ and the CO concentration of the effluent stream after each adjustment is made with a handheld portable monitor to ensure optimal baseline concentrations are maintained.

[SIP Rule 323 §304.1.a]

**13. Recordkeeping & Reporting:**

The Permittee shall comply with the requirements set forth in this permit. Any records and data required by this Permit Condition shall be kept on site at all times in a consistent and complete manner and be made available without delay to the Control Officer or his designee upon request. Copies of reports, logs and supporting documentation required by the Control Officer shall be retained for at least 5 years. Records and information required by this rule shall also be retained for at least 5 years. Records shall consist of the following information:

[SIP Rule 323 §§501, 502]

a. Amount of each fuel combusted during each calendar month in units greater than 10 MMBtu/hr at the protein plant. A monthly invoice from the fuel supplier may be used to demonstrate compliance with the requirement of this provision.

[40 CFR §60.48c(g)]

b. A monthly and 12-month rolling total record of the amount of propane burned facility-wide in all fuel burning equipment by the end of the following month. A monthly invoice from the fuel supplier may be used to demonstrate compliance with the requirement of this Permit Condition.

[Rule 220 §302.7]

c. Tuning Procedure: Date that the procedure was performed on the particular unit and at a minimum: stack gas temperature, flame conditions, nature of the adjustment and results of the $NO_X$ and CO concentrations obtained by using a handheld monitor after each adjustment.

[SIP Rule 323 §501.4]

d. The Permittee shall submit to the Control Officer notification of the date of construction, anticipated startup, and actual startup of any new steam generating unit(s) between 10 and 100 MMBtu/hr, as provided in 40 CFR §60.7 and Paragraph [e] of this Permit Condition. This notification shall include:

i. The design heat input capacity of the steam generating unit(s) and identification of fuels to be combusted in the steam generating unit(s).

ii. The annual capacity factor at which the Permittee anticipates operating the steam generating unit(s) based on all fuels fired and based on each individual fuel fired.

[40 CFR §60.48c(a)]

e. The Permittee shall submit to the Control Officer notification of the date of construction or reconstruction and actual startup of any new steam generating unit(s) between 10 and 100 MMBtu/hr, as follows:

i. A notification of the date of construction or reconstruction of the new steam generating unit(s) is commenced postmarked no later than 30 days after such date.

ii. A notification of the actual date of initial startup of new steam generating unit(s) postmarked within 15 days after such date.

[40 CFR §60.7]

## EMERGENCY ENGINES

### 14. Operational Limitations:

a. The Permittee shall limit the operation of each emergency engine to no more than 100 hours each per calendar year for the purposes of maintenance checks and readiness testing.

[Rule 324 §§104.5, 205][40 CFR §§60.4211(e), 63.6640(f)(ii)]

b. The Permittee shall limit the total hours of operation of each emergency engine to no more than 320 hours each per any twelve consecutive months including the hours listed in Subsection [a] above.

[Rule 220 §302.2]

c. The emergency engine(s) shall not be used for peak shaving. The emergency engine(s) shall only be used for the following purposes:

i. For power when normal power service fails from the serving utility or if onsite electrical transmission or onsite power generation equipment fails;

ii. Reliability-related activities such as engine readiness, calibration, or maintenance or to prevent the occurrence of an unsafe condition during electrical system maintenance as long as the total number of hours of the operation does not exceed 100 hours per calendar year per engine as evidenced by an installed non-resettable hour meter;

[SIP Rule 324 §104] [40 CFR §§60.4211(e), 63.6640(f)(1)(ii)]

### 15. Fuel Limitations:

a. The Permittee shall not use any fuel that contains more than 0.05% sulfur by weight, alone or in combination with other fuels in the engines specified in Permit Condition 19.

[SIP Rule 324 §301.1]

b. The Permittee shall only use diesel fuel that has a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent; and has a maximum sulfur content of 15 parts per million (ppm) in the engines specified in Permit Condition 20.

[40 CFR §§60.4207(a,b), 80.510(a,b)]

**16. Monitoring:**

The Permittee shall install a non-resettable hour meter prior to startup of the engine(s). The Permittee shall not operate the engine(s) unless the cumulative run time meter is installed and working properly.

[Rule 220 §302.4] [40 CFR §§60.4209, 63.6625(f)]

**17. Opacity:**

a. The Permittee shall not discharge into the ambient air from any single source of emissions any air contaminant, other than uncombined water, in excess of 20% opacity, except as specified in Permit Condition 20.

b. Compliance with visible emissions shall be determined using the techniques specified in EPA Reference Method 9, 40 CFR Part 60, Appendix A.

[SIP Rule 324 §§303, 503.8]

**18. New Source Performance Standards:**

a. If the Permittee modifies or reconstructs a stationary compression ignition internal combustion engine after July 11, 2005, that engine shall comply with all applicable requirements of 40 CFR 60 Subpart IIII.

b. If the Permittee modifies or reconstructs a stationary propane-fueled engine after June 12, 2006, that engine shall comply with all applicable requirements of 40 CFR 60 Subpart JJJJ.

[40 CFR §§ 60.4200(a)(3), 60.4230(a)(5)]

**19. 40 CFR 63 Subpart ZZZZ Operating Requirements:**

a. The following engines shall comply with all requirements of this Permit Condition:

| ID | Engine Model | Manufacture Year | Maximum Power |
|---|---|---|---|
| G-2 | Cummins LTA-10G1 | 1998 | 380 HP |
| G-4 | Cummins LTA-10G1 | 2000 | 380 HP |
| G-5 | Cummins LTA-10G1 | 2001 | 380 HP |
| G-6 | Cummins LTA-10G1 | 1999 | 380 HP |
| G-7 | Cummins LTA10-G1 | 2004 | 380 HP |
| G-8 | Onan 5500 LP, S/N J040702290 | 2000 | 10.7 HP |
| G-9 | Cummins LTA10-G1 | 2005 | 380 HP |
| G-46 | Caterpillar 3512 DITA | 1997 | 380 HP |

[40 CFR §63.6590]

b. The Permittee shall operate and maintain each engine and associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Control Officer 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)]

c. The Permittee shall operate and maintain each engine according to the manufacturer's emission-related operation and maintenance instructions or develop and follow the Permittee's own maintenance plan which must provide to the extent practicable for the operation and maintenance of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 CFR §63.6640(a)]

d. The Permittee shall comply with the following maintenance schedule for each engine:

i. Change oil and filter or perform an Oil Analysis Program every 500 hours of operation or annually, whichever comes first. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity and percent water content. The condemning limits for these parameters are as follows:

1) Total Base Number is less than 30 percent of the Total Base Number of the oil when new;

2) Viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new;

3) Percent water content (by volume) is greater than 0.5.

If none of these limits are exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil before continuing to use the engine. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine

ii. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;

iii. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, for the propane engine.

iv. 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(4)]

e. If an engine is operating during an emergency and it is not possible to shut down the engine in order to perform the maintenance requirements on the schedule required by this Permit Condition, or if performing the maintenance operations on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the maintenance operations can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The maintenance operations shall be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the maintenance operations on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable, in accordance with Permit Condition 22.

[40 CFR §63.6603(a); Table 2d]

f. During periods of startup, the Permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[40 CFR §63.6625(h)]

**20. NSPS Subpart IIII Requirements:**

a. The following engines shall comply with the specified EPA emission standard and all requirements of this Permit Condition:

| ID | Engine Model | Year of Manufacture | Maximum Power | Emission Standard |
|---|---|---|---|---|
| G-1 | Cummins QSX15-G9 NR2 | 2010 | 755 HP | Tier 2 |
| G-10, G-11 | Cummins QSL9-G2 NR3 | 2007 | 310 HP | Tier 3 |
| G-12 | Detroit - Series 60 | 2007 | 685 HP | Tier 3 |
| G-13, G-14, G-16 | 6090HF485 - John Deere | 2008 | 422 HP | Tier 3 |
| G-15 | 6068HF285 - John Deere | 2008 | 237 HP | Tier 3 |
| G-17, G-18, G-19 | 6090HF485 - John Deere | 2010 | 422 HP | Tier 3 |
| G-20, G-21, G-22 | Cummins QSL9-G7 NR3 | 2012 | 464 HP | Tier 3 |
| G-23, G-24, G-25 | Cummins QSL9-G7 NR3 | 2013 | 464 HP | Tier 3 |

| ID | Engine Model | Year of Manufacture | Maximum Power | Emission Standard |
|---|---|---|---|---|
| G-39 | Cummins QSL9-G7 NR3 | 2015 | 464 HP | Tier 3 |
| G-45, G-47 | Cummins QSL9-G7 NR3 | 2016 | 464 HP | Tier 3 |
| FM-1 | Cummins QSB7-G5 NR3 | 2012 | 324 HP | Tier 3 |

[40 CFR §60.4205]

b. Additional Opacity Standard:
For 2007 model year and later engines, the Permittee shall not allow exhaust opacity to exceed 15% during the lugging mode. This restriction does not apply to fire pump engines.
[40 CFR §§60.4205, 89.113(a)(2)]

c. Crankcase Emissions:
For the engines specified in Subsection [b] of this Permit Condition, the Permittee shall not discharge crankcase emissions into the ambient atmosphere, unless such crankcase emissions are permanently routed into the exhaust and included in all exhaust emission measurements. This provision does not apply to engines using turbochargers, pumps, blowers, or superchargers for air induction or fire pump engines.
[40 CFR §§60.4205, 89.112(e)]

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

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

f. The Permittee shall meet the requirements of 40 CFR Part 89 as it applies.
[40 CFR §60.4211(a), 60.4206]

**21. Recordkeeping:**

a. The Permittee shall maintain the following records for a period of at least five years from the date of the records and make them available to the Control Officer upon request:

i. An initial one time entry listing the particular engine combustion type (compression or spark-ignition or rich or lean burn); manufacturer; model designation, rated brake horsepower, serial number and where the engine is located on the site.

ii. Monthly rolling twelve month total of hours of operation, including hours of operation for testing, reliability and maintenance.

iii. Fuel type and sulfur content of fuel.

iv. An explanation for the use of the engine if it is used as an emergency engine.
[SIP Rule 324 §502][40 CFR §§60.4214(b), 63.6655(f)]

v. Records of the following for each engine listed in Permit Condition 19:

1) Oil and filter change dates or oil analysis results and corresponding hours on the hour meter;

2) Inspection and replacement dates for air cleaners, spark plugs, hoses, and belts;

3) Records of other emission-related repairs and maintenance performed.
[40 CFR §§63.6655(e)(2), 63.6660]

b. The Permittee shall maintain a copy of manufacturer data for each engine listed in Permit Condition 20 indicating compliance with the standards in this Permit.
[Rule 220 §302.7][40 CFR §§60.4211(b)(3)]

c. For each engine listed in Permit Conditions 19 and 20, the Permittee shall maintain an onsite copy of the manufacturer's written instructions, or procedures developed by the Permittee in accordance with these Permit Conditions and make it available to MCAQD upon request.
[Rule 220 §302.7] [40 CFR §§63.6655(e)(2), 63.6660]

**22. Reporting Requirements:**

a. Fuel Sulfur Content Verification: If the Control Officer requests proof of the sulfur content of fuel burned in the engines, the Permittee shall submit fuel receipts, contract specifications, pipeline meter tickets, Safety Data Sheets (SDS), fuel supplier information or purchase records, if applicable, from the fuel supplier, indicating the sulfur content of the fuel oil. In lieu of these, testing of the fuel oil for sulfur content to meet the applicable sulfur limit shall be permitted if so desired by the owner or operator for evidence of compliance

[Rule 220 §302.7]

b. Deviations from ICE Maintenance Schedule: The Permittee shall report any failure to perform a maintenance operation on the schedule required by Permit Condition 19 of this Permit and the Federal, State or local law under which the risk was deemed unacceptable. The Report shall be submitted to the Control Officer, Attn: Compliance Division Manager, within 2 working days after the date on which the maintenance operation was required to be performed. A subsequent report shall be submitted to the Control Officer within 2 working days after the required maintenance operation is performed.

[Rule 220 §302.8; Rule 130 §402.4] [40 CFR §63.6640(b)]

**VOLATILE ORGANIC COMPOUNDS**

Note: This Permit Section applies to VOC-containing materials used in the egg processing and protein plants, excluding animal matter and cleaning solvent, as defined in Permit Condition 27.a.

**23. Allowable Emissions:**

The Permittee shall not allow VOC emissions into the atmosphere in excess of 300 pounds per twelve consecutive month period. The 12-month rolling total emissions shall be calculated monthly by the end of the following month by summing the emissions over the most recent 12 calendar months. The Permittee shall keep this emission record on-site for inspection or submittal upon request.

[Rule 220 §302.2] [Locally Enforceable Only]

**24. Equipment Cleanup:**

The Permittee shall not use any liquid materials containing more than 10% VOC by weight for the cleanup of equipment unless:

a. The used cleaning liquids are collected in a container which is closed when not in use and is disposed of in a manner such that VOCs are not emitted into the atmosphere, or

b. The equipment is disassembled and cleaned in a solvent vat which is closed when not in use, or cleaning is done by other methods, approved in writing by the Control Officer, which limit evaporation.

[Rule 330 §305][Locally Enforceable Only]

**25. VOC Containment and Disposal:**

The Permittee shall not store, discard, or dispose of VOC or VOC-containing material in a way intended to cause or to allow the evaporation of VOC to the atmosphere. Reasonable measures shall be taken to prevent such evaporation which include but are not limited to the following:

a. All materials from which VOC can evaporate, including fresh solvent, waste solvent and solvent-soaked rags and residues, shall be stored in closed containers when not in use, and

[Rule 330 §306][SIP Rule 32.C]

b. Such containers one gallon and larger shall be legibly labeled with their contents.

[Rule 330 §306.2][Locally Enforceable Only]

**26. Recordkeeping:**

The following records shall be retained for five years and shall be made available to the Control Officer upon request.

a. Current List: Maintain a current list of coatings, adhesives, makeup solvents, and any other VOC-containing materials; state the VOC content of each in pounds per gallon or grams per liter. VOC content shall be expressed less water and non-precursor compounds for materials which are not used for cleaning or cleanup.

[Rule 330 §503.1][Locally Enforceable Only]

b. Monthly Usage Records: Maintain monthly records of the amount of each coating; adhesive; makeup solvent; solvent used for surface preparation, for cleanup, and for the removal of materials; and any other VOC-containing material used. Identify any materials that are heated above 200°F or contain non-complying solvent, as defined in Rule 330 §202, and keep separate totals for these materials.
[Rule 330 §503.2][Locally Enforceable Only]

c. Discarded Materials: Maintain records of the type, amount, and method of disposing of VOC-containing materials on each day of disposal. Records of hazardous waste disposal shall be kept in accordance with hazardous waste disposal statutes.
[Rule 330 §§ 306.3, 503.4][Locally Enforceable Only]

d. Records of the 12-month rolling total emissions, as required by Permit Condition 23.
[Rule 220 §302.7][Locally Enforceable Only]

## NON-VAPOR SOLVENT CLEANING MACHINES

**27. Definitions**

For the Purpose of this Permit Section, the following definitions apply:

a. *Cleaning Solvent*: Solvent used for cleaning that contains more than 2.0% VOC by weight and more than 20 grams of VOC per liter.

b. *Conforming Solvent*: A cleaning-solvent having a total VOC vapor pressure at 68°F (20°C) not exceeding 1 millimeter of mercury column.

c. *Low-VOC Cleaner*: Any solution or homogeneous suspension that, as used, contains less than 50 grams of VOC per liter of material (0.42 lb VOC/gal) or is at least 95% water by weight or volume.

d. *Small Cleaner*: Any degreaser or dip tank having a liquid surface area of 1 square foot or less or having a maximum capacity of one gallon or less.

e. *Solvent Cleaning Machine (Cleaning Machine) (Degreaser)*: Any liquid container and ancillary equipment designed to clean surfaces and/or remove surface contaminants using cleaning-solvents
[SIP Rule 331 §§ 200, 304.3, 308.2(b)]

**28. Allowable Emissions:**

a. The Permittee shall not allow VOC emissions into the atmosphere in excess of 500 pounds per twelve consecutive month period. The 12-month rolling total emissions shall be calculated monthly by the end of the following month by summing the emissions over the most recent 12 calendar months. The Permittee shall keep this emission record on-site for inspection or submittal upon request.
[Rule 220 §302.2] [Locally Enforceable Only]

b. Unless records show that VOC-containing cleaning material was sent offsite for legal disposal, it will be assumed that it evaporated on site.
[SIP Rule 331 §301.3]

**29. Solvent Handling Requirements:**

The Permittee shall comply with all of the following:

a. All cleaning solvent, including solvent soaked materials, shall be kept in closed, leak free, impervious containers that are opened only when adding or removing material.

   i. Porous or absorbent materials used for wipe cleaning shall be stored in closed containers when not in use.

   ii. Each container shall be clearly labeled with its contents.

b. If any cleaning solvent escapes from a container:

i. Wipe up or otherwise remove immediately if in accessible areas.

ii. For areas where access is not feasible during normal production, remove as soon as reasonably possible.

[SIP Rule 331 §301]

**30. Equipment Requirements:**

The Permittee shall comply with all of the following:

a. Provide a leak-free, impervious container (degreaser) for the solvents and the articles being cleaned.

i. The VOC-containment portion shall be impervious to VOC-containing liquid and vapors.

ii. No surface of any freeboard required by this Permit shall have an opening or duct through which VOC can escape to the atmosphere, except as controlled by an emission control system, or as required by osha.

b. Properly maintain and operate all cleaning machine equipment required by this permit.

[SIP Rule 331 §302]

**31. Specific Operating and Signage Requirements for Cleaning Machines:**

The Permittee when using cleaning solvent, other than a low-VOC cleaner, shall comply with the following requirements:

a. Operating Requirements:

i. Fans: Do not locate nor position comfort fans in such a way as to direct airflow across the opening of any cleaning machine.

ii. Cover: Do not remove any device designed to cover the solvent unless processing work in the cleaning machine or maintaining the machine.

iii. Draining: Drain cleaned parts for at least 15 seconds after cleaning or until dripping ceases, whichever is later.

iv. Spraying: If using a cleaning solvent spray system, the Permittee shall:

1) Use only a continuous, undivided stream (not a fine, atomized, or shower type spray).

2) Pressure at the orifice from which the solvent emerges shall not exceed 10 psig and shall not cause liquid solvent to splash outside of the solvent container.

v. Agitation: No person shall cause agitation of a cleaning solvent in a cleaning machine by sparging with air or other gas.

vi. No Porous Material:

1) The Permittee shall not clean nor use porous or absorbent materials to clean parts or products in a cleaning machine. Porous or absorbent materials include, but are not limited to, cloth, leather, wood, and rope.

2) The Permittee shall not place an object with a sealed wood handle, including a brush, in or on a cleaning machine.

3) The Permittee shall not place porous or absorbent materials, including, but not limited to, cloth, leather, wood, and rope on a cleaning machine.

vii. Contamination Prevention: Prevent cross contamination of conforming solvents with non-conforming solvents. Use signs, separated work-areas, or other effective means for this purpose.

viii. Filtration Devices: Filtration devices shall be operated in accordance with manufacturer's specifications and the following:

1) The filtration device shall be fully submerged in cleaning solvent at all times during filtration.

2) When the filtration device is completely saturated and must be removed from the cleaning machine, the filtration device shall be drained until no liquid can flow from the filtration device. Draining and drying such filtration device shall be conducted in a sealed container with no exhaust to the atmosphere or work area.

3) After the filtration device is dry, the filtration device shall be stored in a closed, leak free, impervious container that is legibly labeled with its contents and that remains covered when not in use. Disposal of the filtration device shall be done in a manner that inhibits VOC evaporation and that is in compliance with appropriate/legal methods of disposal.

[SIP Rule 331 §303.1]

b. The Permittee shall not perform blasting, misting or high pressure flushing using a cleaning solvent.

[SIP Rule 331 §307]

c. Signage Requirements: The Permittee, when using cleaning solvent other than low-VOC cleaner, in any solvent cleaning machine (degreaser) or dip tank shall provide on the machine, or within 3¼ feet (1 meter) of the machine, a permanent, conspicuous label or placard which includes each item listed in Rule 331, Section 303.2, as provided in the attachment to these Permit Conditions.

[SIP Rule 331 §303.2]

**32. Solvent Specifications:**

The Permittee shall only use a conforming solvent except as follows:

a. Low-VOC cleaners

b. Wipe cleaning

c. Small Cleaners

d. Aerosol cans, squirt bottles and other solvent containers intended for handheld use.

[SIP Rule 331 §§ 304; 307.2, 307.3(b); 308.2]

**33. Batch Cleaning Equipment:**

The Permittee, when using cleaning solvent other than a low-VOC cleaner, shall comply with the following requirements:

a. A batch cleaning machine without a remote reservoir shall be equipped with all of the following:

i. Have and use an internal drainage rack or other assembly that confines within the freeboard all cleaning solvent dripping from parts and returns it to the hold of the cleaning machine (degreaser).

ii. Have an impervious cover which when closed prevents cleaning solvent vapors in the cleaning machine from escaping into the air/atmosphere when not processing work in the cleaning machine. A cover shall be fitted so that in its closed position the cover is between the cleaning solvent and any lip exhaust or other safety vent, except that such position of cover and venting may be altered by an operator for valid concerns of flammability established in writing and certified by a Certified Safety Professional or a Certified Industrial Hygienist to meet health and safety requirements.

iii. In the absence of additional applicable freeboard standards, freeboard height shall be not less than 6 inches (15.2 cm).

iv. The freeboard zone shall have a permanent, conspicuous mark that locates the maximum allowable solvent level which conforms to the applicable freeboard requirements.

[SIP Rule 331 305.1]

b. Using Cleaning Solvent that is Heated or Agitated: If a cleaning machine uses a cleaning solvent at a temperature above 120°F (49°C) or agitates the solvent, then the Permittee shall comply with Subsection [a] of this Permit Condition and one of the following:

i. A floating layer of water (insoluble in the solvent) at least 1 inch thick, and a freeboard at least 6 inches above the top of the solvent shall be present; or

ii. The basin shall have a freeboard ratio of 0.75 or greater, an impervious cover shall cover the basin whenever work is not being processed, and only conforming solvent may be used.

[SIP Rule 331 §305.3]

**34. Recordkeeping and Reporting:**

The Permittee shall maintain the following records which shall be retained for five years and be made available to the Control Officer upon request.

a. Current List:

i. Maintain a current list of cleaning solvents; state the VOC content of each in pounds VOC per gallon of material or grams per liter of material.

ii. A facility using any conforming solvent shall have on site the written value of the total VOC vapor pressure of each such solvent, in one of the following forms:

1) A manufacturer's technical data sheet,

2) A manufacturer's safety data sheet (SDS), or

3) Actual test results.

b. Usage Records:

i. Monthly: Records of the monthly and 12 month rolling total amount of cleaning solvent used shall be updated by the end of month for the previous month. Show the type and amount of each makeup and all other cleaning solvent to which this Permit Section is applicable and all solvent waste disposal records.

ii. Annually:

1) Use of concentrate that is used only in the formulation of low-VOC cleaner shall be updated at least annually. For a low-VOC cleaner, the Permittee need not keep a record of a cleaning substance that is made by diluting a concentrate with water or non-precursor compound(s) to a level that qualifies as a low-VOC cleaner, if records of the concentrate usage are kept in accordance with this permit.

2) Grouping by VOC Content: For purposes of recording usage, the Permittee may give cleaning solvents of similar VOC content a single group name, distinct from any product names in the group. The total usage of all the products in that group is then recorded under just one name. In such case, the Permittee must keep a separate list that identifies the product names of the particular solvents included under the group name. To the group name shall be assigned the highest VOC content among the members of that group, rounded to the nearest 0.1 pound of VOC per gallon of material, or to the nearest gram VOC per liter of material.

[SIP Rule 331 §501

c. Records of the 12-month rolling total emissions, as required by Permit Condition 28.a

[Rule 220 §302.7][Locally Enforceable Only]

## GASOLINE STORAGE AND DISPENSING

**35. Allowable Emissions:**

Vapor loss from the source at any point in time shall not exceed 10,000 ppm as methane as measured by an organic vapor analyzer or combustible gas detector.

[Rule 353 §§218, 301]

**36. Operating Restrictions:**

a. The Permittee shall limit the delivery of gasoline to the facility to less than 10,000 gallons per month and less than 120,000 gallons per year.

b. The gasoline dispensing tanks shall be used exclusively for the fueling of implements of normal farm operations.

[Rule 220 §302, Rule 353 §305]

**37. Vapor Loss Control Measures:**

No vapor or liquid escapes are allowed through a dispensing tank's outer surfaces, nor from any of the joints where the tank is connected to pipe(s), wires, or other system.

a. VOC Emission Standard:
Tanks and their fittings shall be vapor tight except for the outlet of a pressure/vacuum relief valve on a dispensing tank's vent pipe. Specifically, this means that at a probe tip distance of 1 inch (2.5 cm) from a surface, no vapor escape shall exceed 1/5 of the lower explosive limit. This applies to tanks containing gasoline regardless of whether they are currently being filled, and to caps and other tank fittings.

[Rule 353 §301.1.b]

b. Leakage Limits – Liquid Leaks and Spills:

i. Gasoline storage and receiving operations shall be leak free. Specifically, no liquid gasoline escape of more than 3 drops per minute is allowed. This includes leaks through the walls of piping, fittings, fill hose(s), and vapor hose(s).

ii. All open gasoline containers shall be covered with a gasketed seal when not in use.

iii. There shall be no excess gasoline drainage from the end of a fill hose or a vapor hose. Specifically, not more than 2 teaspoonsful of gasoline shall be lost in the course of a connect or disconnect process.

iv. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

[Rule 353 §301.2] [40 CFR §63.11116]

c. Spill Containment: The entire spill containment system including gaskets shall be kept vapor-tight.

i. The Spill Containment Receptacle:

1) The outer surface of the spill containment receptacle shall have no holes or cracks and shall allow no vapors to pass from the dispensing tank through it to the atmosphere.

2) Spill containment receptacles shall be kept clean and free of foreign material at all times.

[Rule 353 §301.3.a]

ii. If the spill containment is equipped with a passageway to allow material trapped by the containment system to flow into the interior of the dispensing tank:

1) The passageway shall be kept vapor tight at all times, except during the short period when a person opens the passageway to immediately drain material trapped by the containment system into the tank.

2) The bottom of the receptacle shall be designed and kept such that no puddles of gasoline are left after draining through the passageway has ceased.

[Rule 353 §301.3.b]

iii. The dispensing tank owner/operator is responsible for assuring that before a delivery vessel leaves the premises after a delivery:

1) Any gasoline in the spill containment system and vault shall be cleaned up as expeditiously as practicable and shall be removed prior to delivery trucks leaving the site.

2) Any gasoline absorbed onto other materials shall be contained in order to minimize emissions prior to delivery trucks leaving the site.

3) Any plunger/stopper assembly is unimpeded and sealing correctly prior to delivery trucks leaving the site.

[Rule 353 §301.3.c] [40 CFR §63.11116]

**38. Inspection Requirements:**
The Permittee shall inspect spill containment receptacles weekly for cracks, defects, foreign material, and spilled gasoline. Records shall be maintained as specified below. If deliveries are less than weekly, inspection and recording of the inspection at the time of each delivery will be considered an acceptable alternative to the weekly inspection and recordkeeping requirements of this Permit Condition.
[Rule 353 §301.3(a)(3)]

**39. Recordkeeping:**
The Permittee shall keep the following records and supporting information no less than five years from the date of such record:

a. The total amount of gasoline received each month shall be recorded by the end of the following month.

b. Weekly inspection records of the spill containment receptacle shall be recorded by the end of Saturday of the following week.

c. Records of the last 12 months of gasoline throughput shall be onsite and readily available within 24 hours of a request by the Control Officer.

[Rule 353 §502]

## GENERAL CONDITIONS

**40. Posting of Permit:**
This Permit shall be posted in a clearly visible and accessible location on the site where the equipment is installed.
[Rule 200 §312][Locally Enforceable Only]

**41. Compliance:**

a. The issuance of any Permit or Permit revision shall not relieve the Permittee from compliance with any Federal laws, Arizona laws, or the County or SIP Rules, nor does any other law, regulation or permit relieve the Permittee from obtaining a Permit or Permit revision required under the County Rules.
[Rule 200 §309; Rule 220 §406.3]

b. The Permittee shall comply with all conditions of this Permit including all applicable requirements of Federal laws, Arizona laws, and Maricopa County Air Pollution Control Rules and Regulations now in effect and as amended in the future. Any Permit noncompliance is grounds for enforcement action, Permit termination or revocation, or for denial of a renewal application. In addition, non-compliance with any federally enforceable requirements constitutes a violation of the Clean Air Act.
[Rule 200 §310.4][Rule 220 §302.24] [A.A.C R18-2-306.A.8.a]

c. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with these Permit Conditions.
[Rule 220 §302.10, 11] [A.A.C. R18-2-306.A.8.b]

d. Rights and Privileges: This Permit does not convey any property rights or exclusive privilege of any sort.

[Rule 220 §302.12]

e. Fees: The Permittee shall pay all fees to the Control Officer in accordance with Rule 280. No permit or permit revision is valid until the applicable permit fee has been received and until the permit is issued by the Control Officer.
[Rule 200 §409; Rule 280 §302] [ARS 49-480(D)] [SIP Rule 28]

**42. Malfunctions, Emergency Upsets, and Excess Emissions:**
An affirmative defense of an emergency, excess emission, and/or during startup and shutdown shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence as outlined in Rule 130 for emergencies and Rule 140 for excess emissions.
[Rule 130 §§201, 400; Rule 140 §§400, 500] [SIP Rule 140]

**43. Revision / Reopening / Revocation:**

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, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any Permit Condition.

[Rule 220 §302.11]

**44. Records:**

a. The Permittee shall furnish information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing this permit, or terminating this permit, or to determine compliance with this permit. The information shall be provided in a timeframe specified by the Control Officer. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by this Permit. For information claimed to be confidential, the Permittee shall furnish a copy of such records directly to the Administrator along with a claim of confidentiality.

[Rule 220 §302.13] [SIP Rule 40]

b. If the Permittee fails to submit any relevant facts or has submitted incorrect information in a permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, the Permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application is filed but prior to release of a proposed permit. Willful misrepresentation of facts in a permit application is cause for revocation or denial of a permit.

[Rule 220 §§301.5, 301.6]

**45. Right to Entry:**

a. The Control Officer during reasonable hours, for the purpose of enforcing and administering County or SIP Rules or the Clean Air Act, or any provision of the Arizona Revised Statutes relating to the emission or control prescribed pursuant thereto, may enter every building, premises, or other place, except the interior of structures used as private residences. Every person is guilty of a petty offense under ARS 49-488 who in any way denies, obstructs or hampers such entrance or inspection that is lawfully authorized by warrant.

b. The Permittee shall allow the Control Officer or his designated representatives, upon presentation of proper credentials (e.g., Maricopa County Air Quality Department identification) and other documents as may be required by law, to:

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

ii. Have access to and copy, at reasonable times, any records that are required to be kept pursuant to the conditions of the permit;

iii. Inspect, at reasonable times, any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required pursuant to this permit;

iv. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the Permit or other applicable requirements; and

v. To record any inspection by use of written, electronic, magnetic, and photographic media.

[Rule 100 §105; Rule 220 §302.17-21] [SIP Rule 43]

**46. Severability:**

The rules, paragraphs, clauses, provisions, and/or sections of this Permit are severable, and, if any rule, paragraph, clause, provision, and/or section of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.

[Rule 220 §302.9] [SIP Rule 80]

# Cleaning Machine Operating Requirements

- Keep cover closed when parts are not being handled.
- Drain parts until they can be removed without dripping.
- Do not blow off parts before they have stopped dripping.
- Wipe up spills and drips as soon as possible; store used spill rags and wiping material in a covered container.
- Do not leave cloth or any absorbent materials in or on this tank.

# Equipment List

HICKMANS EGG RANCH
Permit Number 040136

Issue Date: 02/02/05
Revision: 2.0.3.0
Revision Date: 06/03/2016

| | Equipment Description | Rated Capacity | Quantity Exist/Future |
|---|---|---|---|
| | EMERGENCY GENERATORS | | |
| 1. | EMERGENCY GENERATOR - G-1; DIESEL; CUMMINS 350DFEG; ENGINE: CUMMINS QSX15-G9 NR2, MANUFACTURED 2010 | 755.00 HP | 1 / |
| 2. | EMERGENCY GENERATOR - G-2; DIESEL; CUMMINS 230DFAB; ENGINE: CUMMINS LTA-10G1, MANUFACTURED 1998 | 380.00 HP | 1 / |
| 3. | EMERGENCY GENERATOR - G-4; DIESEL; CUMMINS 230DFAB; ENGINE: CUMMINS LTA-10G1, MANUFACTURED 2000, OUT OF SERVICE | 380.00 HP | 1 / |
| 4. | EMERGENCY GENERATOR - G-5; DIESEL; CUMMINS 230DFAB; ENGINE: CUMMINS LTA-10G1, MANUFACTURED 2001 | 380.00 HP | 1 / |
| 5. | EMERGENCY GENERATOR - G-6; DIESEL; CUMMINS 230DFAB; ENGINE: CUMMINS LTA-10G1, MANUFACTURED 1999 | 380.00 HP | 1 / |
| 6. | EMERGENCY GENERATOR - G-7; DIESEL; CUMMINS 230DFAB; ENGINE: CUMMINS LTA10-G1, MANUFACTURED 2004 | 380.00 HP | 1 / |
| 7. | EMERGENCY GENERATOR - G-9; DIESEL; CUMMINS 230DFAB; ENGINE: CUMMINS LTA10-G1, MANUFACTURED 2005 | 380.00 HP | 1 / |
| 8. | EMERGENCY GENERATOR - G-10; DIESEL; CUMMINS 200DSHAC; ENGINE: CUMMINS QSL9-G2 NR3, MANUFACTURED 2007 | 310.00 HP | 1 / |
| 9. | EMERGENCY GENERATOR - G-11; DIESEL; CUMMINS 250DQDAA; ENGINE: CUMMINS QSL9-G3 NR3, MANUFACTURED 2007 | 352.00 HP | 1 / |
| 10. | EMERGENCY GENERATOR - G-12; DIESEL; KATOLIGHT SED350FRX4T3; ENGINE: DETROIT SERIES 60, MANUFACTURED 2007 | 685.00 HP | 1 / |
| 11. | EMERGENCY GENERATOR - G-13, G-14; DIESEL, KATOLIGHT SED250FRJ4T3; ENGINE: JOHN DEERE 6090HF485, MANUFACTURED 2008 | 422.00 HP | 2 / |
| 12. | EMERGENCY GENERATOR - G-15; DIESEL; KATOLIGHT SED150FRJ4T3; ENGINE: JOHN DEERE 6068HF285, MANUFACTURED 2008 | 237.00 HP | 1 / |
| 13. | EMERGENCY GENERATOR - G-16; DIESEL; KATOLIGHT SD150RJ6T3; ENGINE: JOHN DEERE 6090HF485, MANUFACTURED 2008 | 422.00 HP | 1 / |

# Equipment List

HICKMANS EGG RANCH
Permit Number 040136

| | Equipment Description | Rated Capacity | | Quantity Exist/Future |
|---|---|---|---|---|
| 14. | EMERGENCY GENERATOR - G-17, G-18, G-19; DIESEL; MTU ONSITE ENERGY 250-JS6DT3; ENGINE: JOHN DEERE 6090HF485, MANUFACTURED 2010 | 422.00 | HP | 3 / |
| 15. | EMERGENCY GENERATOR - G-20, G-21, G-22; DIESEL; CUMMINS 250DQDAA; ENGINE: CUMMINS QSL9-G7 NR3, MANUFACTURED 2012 | 464.00 | HP | 3 / |
| 16. | EMERGENCY GENERATOR - G-23, G-24, G-25; DIESEL; CUMMINS 250DQDAA; ENGINE: CUMMINS QSL9-G7 NR3; MANUFACTURED 2013 | 464.00 | HP | 3 / |
| 17. | EMERGENCY GENERATOR - FM-1; DIESEL; CUMMINS 125DSGAB; ENGINE: CUMMINS QSB7-G5 NR3, MANUFACTURED 2012 | 324.00 | HP | 1 / |
| 18. | EMERGENCY GENERATOR - G-39; DIESEL; CUMMINS 250DQDAA; ENGINE: CUMMINS QSL9-G7 NR3, MANUFACTURED 2015 | 464.00 | HP | 1 / |
| 19. | EMERGENCY GENERATOR - G-45, G-47; DIESEL; CUMMINS 250DQDAA; ENGINE: CUMMINS QSL9-G7 NR3, MANUFACTURED 2016 | 464.00 | HP | 2 / |
| 20. | EMERGENCY GENERATOR - G-46; DIESEL; ENGINE: CATERPILLAR 3512 DITA; LOCATED AT PROTEIN PLANT; MANUFACTURED 1997 | 1,482.00 | HP | 1 / |
| FUEL BURNING | | | | |
| 1. | BOILER - #112, 113; PROPANE, LOCHINVAR CBL1256 | 1.13 | MM BTU/HF | 2 / |
| 2. | BOILER - PROPANE; RITE, MODEL P-35 | 1.46 | MM BTU/HF | 1 / |
| 3. | BOILER - PROPANE; HURST, MODEL 4VT-G-50-150; MANUFACTURED 2006 | 2.10 | MM BTU/HF | 1 / |
| 4. | BOILER - PROPANE; SEATTLE WKS, K-4610 | 4.00 | MM BTU/HF | 1 / |
| 5. | DRYER - PROPANE; ROTARY DRYER WITH WET SCRUBBER; INSTALLED 07/15 | 15.00 | MM BTU/HF | 1 / |
| 6. | DRYER - PROPANE; E.S.E. OVEN, EX 10, DRIES MANURE PELLETS | 4.00 | MM BTU/HF | 1 / |
| 7. | BOILER - B-4, B-5; PROPANE, MIURA LX-300 SG, PROTEIN PLANT, INSTALLED 02/16 | 11.54 | MM BTU/HF | 2 / |
| 7. | HEATER - PROPANE; CHORE-TIME DURA-THERM 250, HEAT PULLET HOUSES | 250,000.00 | BTU/HR | 78 / |
| 8. | PRESSURE WASHER - PROPANE HEATER WITH ELECTRIC MOTOR, LANDA VNG8-30024C, INSTALLED 04/16 | 741,287.00 | BTU/HR | 1 / |
| OTHER | | | | |

# Equipment List

HICKMANS EGG RANCH
Permit Number 040136

| | Equipment Description | Rated Capacity | | Quantity Exist/Future |
|---|---|---|---|---|
| 1. | TANK, ABOVEGROUND STORAGE - GASOLINE | 500.00 | GALLON(S) | 1 / |
| 2. | TANK, ABOVEGROUND STORAGE - #5, GASOLINE STORAGE, NON-RESALE, INSTALLED 01/2016 | 5,000.00 | GALLON(S) | 1 / |
| 3. | CLEANER - PARTS WASHER, INTERNAL RESERVOIR, R&D FOUNTAIN INDUSTRIES, INSTALLED 04/16 | 80.00 | GALLON(S) | 1 / |
| 4. | CLEANER - PARTS WASHER, INTERNAL RESERVOIR, WESTWARD, INSTALLED 04/2016 | 20.00 | GALLON(S) | 1 / |
| 5. | TANK, ABOVEGROUND STORAGE - TK-511, 512; HEATED FAT STORAGE TANKS, INSTALLED 2016 | 7,500.00 | GALLON(S) | 2 / |
| **De Minimis Equipment:** | | | | |
| 1. | CREMATORY - SHENANDOAH A27 LP, PROPANE OR NATURAL GAS, NOT IN USE | 90.00 | LB(S)/HR | 1 / |
| 2. | TANK, ABOVEGROUND STORAGE - PROPANE | 15,000.00 | GALLON(S) | 1 / |
| 3. | EMERGENCY GENERATOR - G-8; PROPANE; ONAN 5500; S/N J040702290, MANUFACTURED 2000 | 10.70 | HP | 1 / |
| 4. | BUCKET ELEVATOR - RECEIVING/RECLAIM, SCHLAGEL EQUIPMENT | 700.00 | TON(S)/HR | 2 / |
| 5. | CONVEYOR - TRUCK & RAIL RECEIVING, DRAG CONVEYORS, TRUCK AND RAIL RECEIVING, SCHLAGEL EQUIPMENT | 700.00 | TON(S)/HR | 3 / |
| 6. | CONVEYOR - BELT CONVEYORS, RECEIVING TRANSFER AND BIN FILL, SCHLAGEL EQUIPMENT | 1,400.00 | TON(S)/HR | 3 / |
| 7. | CONVEYOR - BELT CONVEYOR, BIN RECLAIM, SCHLAGEL EQUIPMENT | 700.00 | TON(S)/HR | 1 / |
| 8. | EQUIPMENT - DISTRIBUTER/SWING SET, SCHLAGEL EQUIPMENT | 700.00 | TON(S)/HR | 1 / |
| 9. | BIN - 90', CORN STORAGE, CHIEF INDUSTRIES | 14,420.00 | TON(S) | 2 / |
| 10. | HOPPER - 27', CORN STORAGE | 700.00 | TON(S) | 2 / |
| 11. | BUCKET ELEVATOR - RECIEVING, MASH & GRINDING ELEVATORS, SCHLAGEL EQUIPMENT | 120.00 | TON(S)/HR | 4 / |
| 12. | CONVEYOR - RECEIVING, RECLAIM, GRINDING & TRANSFER CONVEYORS, SCHLAGEL EQUIPMENT | 120.00 | TON(S)/HR | 5 / |
| 13. | CONVEYOR - MICRO SYSTEM & RECLAIM SCREW CONVEYORS, SCHLAGEL EQUIPMENT | 75.00 | TON(S)/HR | 30 / |
| 14. | MIXER - 6 TON MIXER, SCOTT EQUIPMENT | 120.00 | TON(S)/HR | 1 / |
| 15. | EQUIPMENT - DISTRIBUTOR, SCHLAGEL EQUIPMENT | 120.00 | TON(S)/HR | 5 / |

# Equipment List

HICKMANS EGG RANCH
Permit Number 040136

| Equipment Description | | Rated Capacity | | Quantity Exist/Future |
|---|---|---|---|---|
| **De Minimis Equipment:** | | | | |
| 16. | GRINDER - RMS ROLLER-GRINDER | 50.00 | TON(S)/HR | 1 / |
| 17. | BIN - FEED INGREDIENT STORAGE, CW WELDING, 26-85 TONS | 85.00 | TON(S) | 20 / |
| 18. | BIN - LOADOUT | 30.00 | TON(S) | 6 / |
| 19. | STORAGE - FLAT STORAGE BUILDING, BUNGER STEEL/STANDARD STRUCTURES | 2,500.00 | TON(S) | 1 / |
| 20. | BIN - MICRO SYSTEM & TOTE BINS | 1.00 | TON(S) | 12 / |