



MAR 08 2016

Mr. Steven Dessauer
Baker Commodities, Inc.
P O Box 416
Kerman, CA 93630

**Re: Notice of Minor Title V Permit Modification
District Facility # C-72
Project # C-1152391**

Dear Mr. Dessauer:

Enclosed is the District's analysis of your application for minor Title V permit modification for the facility identified above. You proposed a Title V minor permit modification to incorporate recently issued ATC C-72-3-13 and ATC C-72-10-0 (under project #s C-1152390 and C-1150031 respectively.) into the Title V operating permit. The proposed modification to permit unit '-3 was to replace the 24-inch 2D-2D cyclone with a 60-inch 1D-1D cyclone, replace the 36-inch 2D-2D cyclone with a 60-inch 1D-1D cyclone, replace one of the three air-to-air vapor condensers, remove the term "backup" from "backup clarifier", and expand the equipment description to include equipment that was previously only listed under Permit to Operate (PTO) condition #s 36, 37, 38, and 39. Authority to Construct '-10-0 was to install an 86 bhp Tier 3 certified diesel-fired emergency IC engine powering a firewater pump.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued ATC C-72-3-13 and ATC C-72-10-0, emission increases, application, and previous Title V permit. This project will be subject to a 45-day EPA commenting period prior to the District taking final action.

If you have any questions, please contact Mr. Errol Villegas, Permit Services Manager, at (559) 230-5900.

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

Mr. Steven Dessauer
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Thank you for your cooperation in this matter.

Sincerely,



for Arnaud Marjollet
Director of Permit Services

Enclosures

cc: Gerardo C. Rios, EPA (w/enclosure) via email

TITLE V APPLICATION REVIEW

Minor Modification
Project #: C-1152391

Engineer: Robert Gilles
Date: February 16, 2016

Facility Number: C-72
Facility Name: Baker Commodities, Inc.
Mailing Address: P O Box 416
Kerman, CA 93630

Contact Name: Marnie Dorsz
Phone: (714) 282-8240 ext. 8603

Responsible Official: Steve Dessauer
Title: Assistant Division Manager / Plant Manager

I. PROPOSAL

Baker Commodities is proposing a Title V minor permit modification to incorporate recently issued ATC C-72-3-13 (under project C-1152390) and ATC C-72-10-0 (under project C-1150031) into the Title V operating permit. Authority to Construct '-3-13 was to replace the 24-inch 2D-2D cyclone with a 60-inch 1D-1D cyclone, replace the 36-inch 2D-2D cyclone with a 60-inch 1D-1D cyclone, replace one of the three air-to-air vapor condensers, remove the term "backup" from "backup clarifier", and expand the equipment description to include equipment that was previously only listed under Permit to Operate (PTO) condition #s 36, 37, 38, and 39. Authority to Construct '-10-0 was to install an 86 bhp Tier 3 certified diesel-fired emergency IC engine powering a firewater pump.

The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with the applicable requirements, and to provide the legal and factual basis for the proposed revisions.

II. FACILITY LOCATION

The Baker Commodities facility is located at 16801 W Jensen Ave in Kerman, CA.

III. EQUIPMENT DESCRIPTION

C-72-3-14 ANIMAL RENDERING OPERATION INCLUDING MEAT AND BONE MEAL COOKING OPERATION WITH: ONE HOGGER, ONE SCREEN SCREW, CONVEYANCE SCREW SYSTEM, EIGHTEEN FAT, YELLOW GREASE, AND TALLOW TANKS, ONE CLARIFIER, ONE CENTRIFUGE, THREE DUPPS MODEL 1200 COOKERS VENTED TO THREE AIR-TO-AIR VAPOR CONDENSERS AND TO A 60-INCH 1D-1D MOISTURE KNOCK-OUT CYCLONE, THREE PRESSORS, TALLOW WORK TANKS, BIRD MACHINE, SCREEN SCREW, OVER PRESS SCREW, HOGGER, CRAX TRANSFER ELEVATORS, AND TALLOW ELEVATOR VENTED TO A 60-INCH 1D-1D MOISTURE KNOCK-OUT CYCLONE, HOT CRAX HOLDING BIN AND CRAX TRANSFER SCREW VENTED TO A 16" 2D-2D MOISTURE KNOCK-OUT CYCLONE, AND ALL CYCLONES VENTING TO ONE 10 MMBTU/HR SPENCER THERMAL OXIDIZER/AFTERBURNER SERIAL #1295 AND ONE 250 HP HURST WASTE HEAT RECOVERY BOILER

C-72-10-1 86 BHP (INTERMITTENT) JOHN DEERE MODEL JU4H-UFADJ8 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

IV. SCOPE OF EPA AND PUBLIC REVIEW

This change to a Title V permit is considered to be a minor modification and, as such, requires no public review.

V. APPLICABLE REQUIREMENTS

District Rule 2520, Federally Mandated Operating Permits (Adopted June 21, 2001)

VI. DESCRIPTION OF PROPOSED MODIFICATIONS

Baker Commodities, Inc. is proposing to modify its animal rendering operation to replace the 24-inch 2D-2D cyclone with a 60-inch 1D-1D cyclone, replace the 36-inch 2D-2D cyclone with a 60-inch 1D-1D cyclone, replace one of the three air-to-air vapor condensers, remove the term "backup" from "backup clarifier", and expand the equipment description to include equipment that was previously only listed under Permit to Operate (PTO) condition #s 36, 37, 38, and 39.

In addition, Baker Commodities is proposing to install a new 86 bhp Tier 3 certified diesel-fired emergency IC engine to power a firewater pump. This is a new emissions unit.

C-72-3:

Existing PTO changes ('-3-11):

Existing PTO conditions 36, 37, 38, and 39 of the requirements for this permit were removed since these requirements have been incorporated into the equipment description on the revised permit.

Existing PTO condition 40 was revised to change the word "condensibles" to "condensables" for consistency of spelling. This is now condition 36 on the requirements for this revised permit.

New conditions on revised permit ('-3-14):

Conditions 39, 40, and 41 of the requirements for this revised permit were added to ensure compliance with District Rule 2201 (NSR) and to verify compliance with the emission limits.

ATC Condition Changes:

ATC condition 1 has been removed and not included in the requirements for this revised permit as Baker Commodities has submitted the appropriate application to incorporate this ATC in to their Title V operating permit.

ATC condition 9 was revised to change the word "condensibles" to "condensables" for consistency of spelling.

C-72-10:

ATC Condition Changes:

ATC condition 1 has been removed and not included in the requirements for this revised permit as Baker Commodities has submitted the appropriate application to incorporate this ATC in to their Title V operating permit.

ATC condition 2 has been removed and not included in the requirements for this revised permit since this condition is included as condition 42 of Baker Commodities' facility wide requirements, permit C-72-0-2.

ATC condition 4 has been removed and not included in the requirements for this revised permit since this condition is included as condition 22 of Baker Commodities' facility wide requirements, permit C-72-0-2.

VII. COMPLIANCE

In accordance with Rule 2520, 3.20, these modifications:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include:
 - a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
 - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
6. Do not seek to consolidate overlapping applicable requirements.

In accordance with Rule 2520, the application meets the procedural requirements of section 11.4 by including;

1. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
2. The source's suggested draft permit; and
3. Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used.

VIII. ATTACHMENTS

- A. Proposed Modified Title V Operating Permit #s. C-72-3-14 and C-72-10-1
- B. Authority to Construct #s C-72-3-13 and C-72-10-0
- C. Emissions Increases
- D. Application
- E. Previous Title V Operating Permit # C-72-3-11

ATTACHMENT A

Proposed Modified Title V Operating Permit #s
C-72-3-14 and C-72-10-1

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-72-3-14

EXPIRATION DATE: 06/30/2019

EQUIPMENT DESCRIPTION:

ANIMAL RENDERING OPERATION INCLUDING MEAT AND BONE MEAL COOKING OPERATION WITH: ONE HOGGER, ONE SCREEN SCREW, CONVEYANCE SCREW SYSTEM, EIGHTEEN FAT, YELLOW GREASE, AND TALLOW TANKS, ONE CLARIFIER, ONE CENTRIFUGE, THREE DUPPS MODEL 1200 COOKERS VENTED TO THREE AIR-TO-AIR VAPOR CONDENSERS AND TO A 60-INCH 1D-1D MOISTURE KNOCK-OUT CYCLONE, THREE PRESSORS, TALLOW WORK TANKS, BIRD MACHINE, SCREEN SCREW, OVER PRESS SCREW, HOGGER, CRAX TRANSFER ELEVATORS, AND TALLOW ELEVATOR VENTED TO A 60-INCH 1D-1D MOISTURE KNOCK-OUT CYCLONE, HOT CRAX HOLDING BIN AND CRAX TRANSFER SCREW VENTED TO A 16" 2D-2D MOISTURE KNOCK-OUT CYCLONE, AND ALL CYCLONES VENTING TO ONE 10 MMBTU/HR SPENCER THERMAL OXIDIZER/AFTERBURNER SERIAL #1295 AND ONE 250 HP HURST WASTE HEAT RECOVERY BOILER

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [District Rule 2201] Federally Enforceable Through Title V Permit
2. All equipment or systems installed or used to achieve compliance with the terms and conditions of this permit shall be maintained in good working order and be operated as efficiently as possible to minimize air pollution emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The Air Pollution Control District shall be immediately notified of any breakdown or malfunction that reduces or disrupts the normal processing of odors required by this permit. [District Rule 4102]
4. The District shall have authority to investigate possible odors alleged to originate from the facility and to make a determination of whether or not a nuisance exists, either in response to a complaint or on its own initiative. [District Rules 1070 and 4102] Federally Enforceable Through Title V Permit
5. The APCO or any authorized representative shall have access to inspect any equipment, operation, records, method required in this permit, to sample emissions from the source or require samples to be taken, or perform any other actions to assure compliance with the requirements of this permit and all District rules and regulations. [District Rule 1070] Federally Enforceable Through Title V Permit
6. The rendering plant shall not be operated unless the odor control system is operating and in full use. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The premises of the plant shall be kept clean and free from spillage of raw or finished materials, refuse, and standing pools of water which may present a nuisance condition. All raw material spills shall be cleaned up immediately. [District Rule 4102]
8. All non-condensable emissions and vapors shall be incinerated in the thermal oxidizer at a minimum temperature of 1200 degrees F and a minimum retention time of 0.57 seconds. [District Rules 4102 and 4104] Federally Enforceable Through Title V Permit
9. The thermal oxidizer temperature shall be monitored by a continuously recording temperature device. [District Rules 2201, 4102, and 4104] Federally Enforceable Through Title V Permit
10. Thermocouple installed at the rear of the thermal oxidizer shall provide accurate temperature readings of flue gas. An audible alarm shall be installed to alert facility personnel to low temperature readings. [District Rules 2201, 4102, and 4104] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

11. If the District determines that the combustion of yellow grease is causing a nuisance then the facility must cease combustion of this product in the thermal oxidizer/afterburner. [District Rule 4102]
12. The sulfur content of the diesel fuel used shall not exceed 0.0015% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
14. The thermal oxidizer shall only be fired by PUC-regulated natural gas, yellow grease, or denatured yellow grease as primary fuels, with fuel oil No. 2 (diesel) as backup. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Denatured yellow grease is yellow grease blended with fuel oil No. 2, not to exceed 1.0% fuel oil No. 2 by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Permittee shall maintain records of the gallons of fuel oil and yellow grease blended to make the denatured yellow grease fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Except for diesel fuel used to make denatured yellow grease, diesel fuel shall only be used whenever natural gas, yellow grease, and denatured yellow grease are not available. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The amount of diesel used as fuel in the thermal oxidizer shall not exceed 504 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Emissions from the thermal oxidizer shall not exceed any of the following limits: 0.59 lb-NO_x/MMBtu, 0.015 lb-VOC/MMBtu, 0.25 lb-SO_x/MMBtu, 0.7 lb-CO/MMBtu, or 0.16 lb-PM₁₀/MMBtu. All emissions measurements shall be averaged over a period of 15 minutes. [District Rule 2201] Federally Enforceable Through Title V Permit
20. NO_x emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed either of the following limits: 141.6 lb NO_x/day or 51,684 lb NO_x/year. [District Rule 2201] Federally Enforceable Through Title V Permit
21. VOC emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 3.6 lb VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit
22. SO_x emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 60.0 lb SO_x/day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. CO emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 168.0 lb CO/day. [District Rule 2201] Federally Enforceable Through Title V Permit
24. PM₁₀ emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 38.4 lb PM₁₀/day. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Daily and annual NO_x emissions are calculated as follows: Total pounds of NO_x emissions = 0.0006 X cubic feet (Natural Gas) + 0.08 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.08 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
26. Daily VOC emissions are calculated as follows: Total pounds of VOC emissions = 1.5E-05 X cubic feet (Natural Gas) + 0.0020 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.0021 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
27. Daily SO_x emissions are calculated as follows: Total pounds of SO_x emissions = 2.5E-04 X cubic feet (Natural Gas) + 0.033 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.034 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
28. Daily CO emissions are calculated as follows: Total pounds of CO emissions = 7.0E-04 X cubic feet (Natural Gas) + 0.091 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.096 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

29. Daily PM10 emissions are calculated as follows: Total pounds of PM10 emissions = $1.6E-04 \times$ cubic feet (Natural Gas) + $0.021 \times$ gallons (Yellow Grease/Denatured Yellow Grease) + $0.022 \times$ gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
30. The stack concentration of NO_x (as NO₂), CO, and O₂ shall be measured at least on a monthly basis using District approved portable analyzers for any fuel fired during the period since the prior monthly test. Operating on a fuel for emissions monitoring purposes only does not need to be performed, provided compliance with emission limits was shown for that fuel during the previous monthly test. [District Rule 1081] Federally Enforceable Through Title V Permit
31. Concentration measurements shall not be taken until the sample acquisition probe has been exposed to the stack gas for at least 150% of the response time. Measurements shall be taken in triplicate. [District Rule 1081] Federally Enforceable Through Title V Permit
32. A non-resettable, totalizing volumetric fuel flow meter shall be utilized to measure the cubic feet of natural gas combusted in the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
33. A separate non-resettable, totalizing liquid fuel flow meter shall be utilized to measure the gallons of yellow grease combusted in the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
34. A separate non-resettable, totalizing liquid fuel flow meter shall be utilized to measure the gallons of diesel fuel combusted in the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Records of the daily and annual amounts of Natural Gas, Yellow Grease, and Diesel fuels combusted in the thermal oxidizer and of the sulfur content of the diesel fuel shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
36. All non-condensables from the condensers and vapors from the presses, tallow work tanks, bird machine, screen screw, press screw, hogger, transfer screw, bins and elevators shall be incinerated in the thermal oxidizer at all times during operation. [District Rule 2201] Federally Enforceable Through Title V Permit
37. The owner and/or operator shall comply with all the provisions of District Rule 4102, Nuisance. [District Rule 4102]
38. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO heat input emissions in lb/MMBtu, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 2201] Federally Enforceable Through Title V Permit
39. The permittee shall maintain records of the total daily emissions of each pollutant, NO_x, SO_x, PM10, CO, and VOC, in pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
40. The permittee shall maintain records of the total annual NO_x emissions, in pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
41. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made readily available for District inspection upon request. [District Rules 1070 and 2520] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-72-10-1

EXPIRATION DATE: 06/30/2019

EQUIPMENT DESCRIPTION:

86 BHP (INTERMITTENT) JOHN DEERE MODEL JU4H-UFADJ8 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed any of the following limits: 3.1 g-NOx/bhp-hr, 0.6 g-CO/bhp-hr, or 0.2 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed 0.17 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems". Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

ATTACHMENT B

Authority to Construct #s
C-72-3-13 and C-72-10-0



AUTHORITY TO CONSTRUCT

PERMIT NO: C-72-3-13

ISSUANCE DATE: 11/25/2015

LEGAL OWNER OR OPERATOR: BAKER COMMODITIES, INC
MAILING ADDRESS: PO BOX 416
KERMAN, CA 93630

LOCATION: 16801 W JENSEN AVE
KERMAN, CA 93630

EQUIPMENT DESCRIPTION:

MODIFICATION OF ANIMAL RENDERING OPERATION INCLUDING MEAT AND BONE MEAL COOKING OPERATION WITH ONE (1) HOGGER, ONE SCREEN SCREW AND CONVEYANCE SCREW SYSTEM, ONE (1) BACKUP CLARIFIER, ONE (1) CENTRIFUGE, THREE (3) PRESSORS, EIGHTEEN (18) FAT, YELLOW GREASE, AND TALLOW TANKS, AND THREE (3) DUPPS MODEL 1200 COOKERS SERVED BY ONE 10 MMBTU/HR SPENCER THERMAL OXIDIZER/AFTERBURNER SERIAL #1295 AND ONE 250 HP HURST WASTEHEAT RECOVERY BOILER: REPLACE THE 24-INCH 2D-2D CYCLONE WITH A 60-INCH 1D-1D CYCLONE, REPLACE THE 36-INCH 2D-2D CYCLONE WITH A 60-INCH 1D-1D CYCLONE, REPLACE ONE OF THE THREE AIR-TO-AIR VAPOR CONDENSERS, REMOVE THE TERM "BACKUP" FROM "BACKUP CLARIFIER", AND EXPAND THE EQUIPMENT DESCRIPTION TO INCLUDE EQUIPMENT THAT WAS PREVIOUSLY ONLY LISTED UNDER PTO CONDITION #S 36, 37, 38, AND 39

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [District Rule 2201] Federally Enforceable Through Title V Permit
3. All equipment or systems installed or used to achieve compliance with the terms and conditions of this permit shall be maintained in good working order and be operated as efficiently as possible to minimize air pollution emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The Air Pollution Control District shall be immediately notified of any breakdown or malfunction that reduces or disrupts the normal processing of odors required by this permit. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet

Arnaud Marjollet, Director of Permit Services

C-72-3-13 Nov 25 2015 3:11PM - GILLESB Joint Inspection NOT Required

5. The District shall have authority to investigate possible odors alleged to originate from the facility and to make a determination of whether or not a nuisance exists, either in response to a complaint or on its own initiative. [District Rules 1070 and 4102] Federally Enforceable Through Title V Permit
6. The APCO or any authorized representative shall have access to inspect any equipment, operation, records, method required in this permit, to sample emissions from the source or require samples to be taken, or perform any other actions to assure compliance with the requirements of this permit and all District rules and regulations. [District Rule 1070] Federally Enforceable Through Title V Permit
7. The rendering plant shall not be operated unless the odor control system is operating and in full use. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The premises of the plant shall be kept clean and free from spillage of raw or finished materials, refuse, and standing pools of water which may present a nuisance condition. All raw material spills shall be cleaned up immediately. [District Rule 4102]
9. All non-condensable emissions and vapors shall be incinerated in the thermal oxidizer at a minimum temperature of 1200 degrees F and a minimum retention time of 0.57 seconds. [District Rules 4102 and 4104] Federally Enforceable Through Title V Permit
10. The thermal oxidizer temperature shall be monitored by a continuously recording temperature device. [District Rules 2201, 4102, and 4104] Federally Enforceable Through Title V Permit
11. Thermocouple installed at the rear of the thermal oxidizer shall provide accurate temperature readings of flue gas. An audible alarm shall be installed to alert facility personnel to low temperature readings. [District Rules 2201, 4102, and 4104] Federally Enforceable Through Title V Permit
12. If the District determines that the combustion of yellow grease is causing a nuisance then the facility must cease combustion of this product in the thermal oxidizer/afterburner. [District Rule 4102]
13. The sulfur content of the diesel fuel used shall not exceed 0.0015% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
15. The thermal oxidizer shall only be fired by PUC-regulated natural gas, yellow grease, or denatured yellow grease as primary fuels, with fuel oil No. 2 (diesel) as backup. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Denatured yellow grease is yellow grease blended with fuel oil No. 2, not to exceed 1.0% fuel oil No. 2 by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Permittee shall maintain records of the gallons of fuel oil and yellow grease blended to make the denatured yellow grease fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Except for diesel fuel used to make denatured yellow grease, diesel fuel shall only be used whenever natural gas, yellow grease, and denatured yellow grease are not available. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The amount of diesel used as fuel in the thermal oxidizer shall not exceed 504 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Emissions from the thermal oxidizer shall not exceed any of the following limits: 0.59 lb-NO_x/MMBtu, 0.015 lb-VOC/MMBtu, 0.25 lb-SO_x/MMBtu, 0.7 lb-CO/MMBtu, or 0.16 lb-PM₁₀/MMBtu. All emissions measurements shall be averaged over a period of 15 minutes. [District Rule 2201] Federally Enforceable Through Title V Permit
21. NO_x emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed either of the following limits: 141.6 lb NO_x/day or 51,684 lb NO_x/year. [District Rule 2201] Federally Enforceable Through Title V Permit
22. VOC emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 3.6 lb VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

23. SOx emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 60.0 lb SOx/day. [District Rule 2201] Federally Enforceable Through Title V Permit
24. CO emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 168.0 lb CO/day. [District Rule 2201] Federally Enforceable Through Title V Permit
25. PM10 emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 38.4 lb PM10/day. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Daily and annual NOx emissions are calculated as follows: Total pounds of NOx emissions = 0.0006 X cubic feet (Natural Gas) + 0.08 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.08 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
27. Daily VOC emissions are calculated as follows: Total pounds of VOC emissions = 1.5E-05 X cubic feet (Natural Gas) + 0.0020 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.0021 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
28. Daily SOx emissions are calculated as follows: Total pounds of SOx emissions = 2.5E-04 X cubic feet (Natural Gas) + 0.033 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.034 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
29. Daily CO emissions are calculated as follows: Total pounds of CO emissions = 7.0E-04 X cubic feet (Natural Gas) + 0.091 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.096 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
30. Daily PM10 emissions are calculated as follows: Total pounds of PM10 emissions = 1.6E-04 X cubic feet (Natural Gas) + 0.021 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.022 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
31. The stack concentration of NOx (as NO2), CO, and O2 shall be measured at least on a monthly basis using District approved portable analyzers for any fuel fired during the period since the prior monthly test. Operating on a fuel for emissions monitoring purposes only does not need to be performed, provided compliance with emission limits was shown for that fuel during the previous monthly test. [District Rule 1081] Federally Enforceable Through Title V Permit
32. Concentration measurements shall not be taken until the sample acquisition probe has been exposed to the stack gas for at least 150% of the response time. Measurements shall be taken in triplicate. [District Rule 1081] Federally Enforceable Through Title V Permit
33. A non-resettable, totalizing volumetric fuel flow meter shall be utilized to measure the cubic feet of natural gas combusted in the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
34. A separate non-resettable, totalizing liquid fuel flow meter shall be utilized to measure the gallons of yellow grease combusted in the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
35. A separate non-resettable, totalizing liquid fuel flow meter shall be utilized to measure the gallons of diesel fuel combusted in the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Records of the daily and annual amounts of Natural Gas, Yellow Grease, and Diesel fuels combusted in the thermal oxidizer and of the sulfur content of the diesel fuel shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
37. All non-condensables from the condensers and vapors from the presses, tallow work tanks, bird machine, screen screw, press screw, hogger, transfer screw, bins and elevators shall be incinerated in the thermal oxidizer at all times during operation. [District Rule 2201] Federally Enforceable Through Title V Permit
38. The owner and/or operator shall comply with all the provisions of District Rule 4102, Nuisance. [District Rule 4102]
39. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO heat input emissions in lb/MMBtu, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

40. The permittee shall maintain records of the total daily emissions of each pollutant, NO_x, SO_x, PM₁₀, CO, and VOC, in pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
41. The permittee shall maintain records of the total annual NO_x emissions, in pounds. [District Rule 2201] Federally Enforceable Through Title V Permit
42. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made readily available for District inspection upon request. [District Rules 1070 and 2520] Federally Enforceable Through Title V Permit



AUTHORITY TO CONSTRUCT

PERMIT NO: C-72-10-0

ISSUANCE DATE: 04/14/2015

LEGAL OWNER OR OPERATOR: BAKER COMMODITIES, INC
MAILING ADDRESS: PO BOX 416
KERMAN, CA 93630

LOCATION: 16801 W JENSEN AVE
KERMAN, CA 93630

EQUIPMENT DESCRIPTION:
86 BHP (INTERMITTENT) JOHN DEERE MODEL JU4H-UFADJ8 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115]
8. Emissions from this IC engine shall not exceed any of the following limits: 3.1 g-NOx/bhp-hr, 0.6 g-CO/bhp-hr, or 0.2 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]
9. Emissions from this IC engine shall not exceed 0.17 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO


Arnaud Marjollet, Director of Permit Services
C-72-10-0 Apr 14 2015 2:06PM --MASLOWST Joint Inspection NOT Required

10. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems". Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 17 CCR 93115]
11. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
12. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

ATTACHMENT C

Emissions Increases

SSIPE (lb/yr)					
Permit #	NOx	VOC	CO	SOx	PM ₁₀
C-72-3-14	0	0	0	0	0
C-72-10-0	12	0	1	2	1
TOTAL	2,592	1,208	3,705	0	913

ATTACHMENT D

Application



San Joaquin Valley Air Pollution Control District

www.valleyair.org



RECEIVED

AUG 13 2015

Permit Application For:

[] ADMINISTRATIVE AMENDMENT [X] MINOR MODIFICATION [] SIGNIFICANT MODIFICATION

SJVUAPCD

1. PERMIT TO BE ISSUED TO: Baker Commodities, Inc.	
2. MAILING ADDRESS: STREET/P.O. BOX: <u>PO Box 416</u> CITY: <u>Kerman</u> STATE: <u>CA</u> 9-DIGIT ZIP CODE: <u>93630</u>	
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED: STREET: <u>16801 W Jensen Avenue</u> CITY: <u>Kerman</u> _____ ¼ SECTION _____ TOWNSHIP _____ RANGE _____	INSTALLATION DATE:
4. GENERAL NATURE OF BUSINESS: Rendering	
5. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary) C-72-3-11: Replacement of cyclones described in Conditions 38 and 39 Existing permit language includes "24" 2D-2D cyclone" in Condition 38 and "36" 2D-2D cyclone" in Condition 39. New permit language should state "cyclone" in both permit conditions 38 and 39. C-72-10-0: A new fire pump engine has been constructed under ATC C-72-10-0. Modify Title V permit to include the permitted equipment.	
6. TYPE OR PRINT NAME OF APPLICANT: Steve Dessauer	TITLE OF APPLICANT: Asst. Division Mgr./Plant Manager
7. SIGNATURE OF APPLICANT: 	DATE: <u>8/14/15</u> PHONE: (559)846-9393 FAX: (559)846-7671 EMAIL: SDessauer@bakercommodities.com

For APCD Use Only:

DATE STAMP	FILING FEE RECEIVED: \$ <u>Ø</u> CHECK#: _____
	DATE PAID: _____
	PROJECT NO: <u>C-1152391</u> FACILITY ID: <u>C-7a</u>



San Joaquin Valley Unified Air Pollution Control District



TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

- SIGNIFICANT PERMIT MODIFICATION ADMINISTRATIVE
 MINOR PERMIT MODIFICATION AMENDMENT

COMPANY NAME: Baker Commodities, Inc.	FACILITY ID: C - 72
1. Type of Organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
2. Owner's Name: Baker Commodities, Inc.	
3. Agent to the Owner: Steve Dessauer	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):

- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:

Steve Dessauer
Signature of Responsible Official

8/14/15
Date

Steve Dessauer
Name of Responsible Official (please print)

Asst. Division Manager/Plant Manager
Title of Responsible Official (please print)

ATTACHMENT E

Previous Title V Operating Permit #
C-72-3-11

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-72-3-11

EXPIRATION DATE: 06/30/2019

EQUIPMENT DESCRIPTION:

ANIMAL RENDERING OPERATION INCLUDING MEAT AND BONE MEAL COOKING OPERATION WITH ONE (1) HOGGER, ONE SCREEN SCREW AND CONVEYANCE SCREW SYSTEM, ONE (1) BACKUP CLARIFIER, ONE (1) CENTRIFUGE, THREE (3) PRESSORS, EIGHTEEN (18) FAT, YELLOW GREASE, AND TALLOW TANKS, AND THREE (3) DUPPS MODEL 1200 COOKERS SERVED BY ONE 10 MMBTU/HR SPENCER THERMAL OXIDIZER/AFTERBURNER SERIAL #1295 AND ONE 250 HP HURST WASTEHEAT RECOVERY BOILER

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [District Rule 2201] Federally Enforceable Through Title V Permit
2. All equipment or systems installed or used to achieve compliance with the terms and conditions of this permit shall be maintained in good working order and be operated as efficiently as possible to minimize air pollution emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The Air Pollution Control District shall be immediately notified of any breakdown or malfunction that reduces or disrupts the normal processing of odors required by this permit. [District Rule 4102]
4. The District shall have authority to investigate possible odors alleged to originate from the facility and to make a determination of whether or not a nuisance exists, either in response to a complaint or on its own initiative. [District Rules 1070 and 4102] Federally Enforceable Through Title V Permit
5. The APCO or any authorized representative shall have access to inspect any equipment, operation, records, method required in this permit, to sample emissions from the source or require samples to be taken, or perform any other actions to assure compliance with the requirements of this permit and all District rules and regulations. [District Rule 1070] Federally Enforceable Through Title V Permit
6. The rendering plant shall not be operated unless the odor control system is operating and in full use. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The premises of the plant shall be kept clean and free from spillage of raw or finished materials, refuse, and standing pools of water which may present a nuisance condition. All raw material spills shall be cleaned up immediately. [District Rule 4102]
8. All non-condensable emissions and vapors shall be incinerated in the thermal oxidizer at a minimum temperature of 1200 degrees F and a minimum retention time of 0.57 seconds. [District Rules 4102 and 4104] Federally Enforceable Through Title V Permit
9. The thermal oxidizer temperature shall be monitored by a continuously recording temperature device. [District Rules 2201, 4102, and 4104] Federally Enforceable Through Title V Permit
10. Thermocouple installed at the rear of the thermal oxidizer shall provide accurate temperature readings of flue gas. An audible alarm shall be installed to alert facility personnel to low temperature readings. [District Rules 2201, 4102, and 4104] Federally Enforceable Through Title V Permit
11. If the District determines that the combustion of yellow grease is causing a nuisance then the facility must cease combustion of this product in the thermal oxidizer/afterburner. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. The sulfur content of the diesel fuel used shall not exceed 0.0015% by weight. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
14. The thermal oxidizer shall only be fired by PUC-regulated natural gas, yellow grease, or denatured yellow grease as primary fuels, with fuel oil No. 2 (diesel) as backup. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Denatured yellow grease is yellow grease blended with fuel oil No. 2, not to exceed 1.0% fuel oil No. 2 by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Permittee shall maintain records of the gallons of fuel oil and yellow grease blended to make the denatured yellow grease fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Except for diesel fuel used to make denatured yellow grease, diesel fuel shall only be used whenever natural gas, yellow grease, and denatured yellow grease are not available. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The amount of diesel used as fuel in the thermal oxidizer shall not exceed 504 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Emissions from the thermal oxidizer shall not exceed any of the following limits: 0.59 lb-NOx/MMBtu, 0.015 lb-VOC/MMBtu, 0.25 lb-SOx/MMBtu, 0.7 lb-CO/MMBtu, or 0.16 lb-PM10/MMBtu. All emissions measurements shall be averaged over a period of 15 minutes. [District Rule 2201] Federally Enforceable Through Title V Permit
20. NOx emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed either of the following limits: 141.6 lb NOx/day or 51,684 lb NOx/year. [District Rule 2201] Federally Enforceable Through Title V Permit
21. VOC emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 3.6 lb VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit
22. SOx emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 60.0 lb SOx/day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. CO emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 168.0 lb CO/day. [District Rule 2201] Federally Enforceable Through Title V Permit
24. PM10 emissions as a result of firing this thermal oxidizer using any combination of the permitted fuels shall not exceed 38.4 lb PM10/day. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Daily and annual NOx emissions are calculated as follows: Total pounds of NOx emissions = 0.0006 X cubic feet (Natural Gas) + 0.08 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.08 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
26. Daily VOC emissions are calculated as follows: Total pounds of VOC emissions = 1.5E-05 X cubic feet (Natural Gas) + 0.0020 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.0021 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
27. Daily SOx emissions are calculated as follows: Total pounds of SOx emissions = 2.5E-04 X cubic feet (Natural Gas) + 0.033 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.034 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
28. Daily CO emissions are calculated as follows: Total pounds of CO emissions = 7.0E-04 X cubic feet (Natural Gas) + 0.091 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.096 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit
29. Daily PM10 emissions are calculated as follows: Total pounds of PM10 emissions = 1.6E-04 X cubic feet (Natural Gas) + 0.021 X gallons (Yellow Grease/Denatured Yellow Grease) + 0.022 X gallons (Diesel). [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

30. *The stack concentration of NO_x (as NO₂), CO, and O₂ shall be measured at least on a monthly basis using District approved portable analyzers for any fuel fired during the period since the prior monthly test. Operating on a fuel for emissions monitoring purposes only does not need to be performed, provided compliance with emission limits was shown for that fuel during the previous monthly test. [District Rule 1081] Federally Enforceable Through Title V Permit*
31. Concentration measurements shall not be taken until the sample acquisition probe has been exposed to the stack gas for at least 150% of the response time. Measurements shall be taken in triplicate. [District Rule 1081] Federally Enforceable Through Title V Permit
32. A non-resettable, totalizing volumetric fuel flow meter shall be utilized to measure the cubic feet of natural gas combusted in the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
33. A separate non-resettable, totalizing liquid fuel flow meter shall be utilized to measure the gallons of yellow grease combusted in the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
34. A separate non-resettable, totalizing liquid fuel flow meter shall be utilized to measure the gallons of diesel fuel combusted in the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Records of the daily and annual amounts of Natural Gas, Yellow Grease, and Diesel fuels combusted in the thermal oxidizer and of the sulfur content of the diesel fuel shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Emissions from the cookers must be vented to, and condensed in, the air-to-air condensers. [District Rule 2201] Federally Enforceable Through Title V Permit
37. Emissions from the hot crax holding bin and the crax transfer screw must be vented to the 16" 2D-2D cyclone, and then to the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Emissions from the condensers must be vented to the 24" 2D-2D cyclone, and then to the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Emissions from the presses, tallow work tanks, bird machine, screen screw, over press screw, hogger, wet crax transfer screw, and tallow elevator must be vented to the 36" 2D-2D cyclone and then to the thermal oxidizer. [District Rule 2201] Federally Enforceable Through Title V Permit
40. All non-condensibles from the condensers and vapors from the presses, tallow work tanks, bird machine, screen screw, press screw, hogger, transfer screw, bins and elevators shall be incinerated in the thermal oxidizer at all times during operation. [District Rule 2201] Federally Enforceable Through Title V Permit
41. The owner and/or operator shall comply with all the provisions of District Rule 4102, Nuisance. [District Rule 4102]
42. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made readily available for District inspection upon request. [District Rules 1070 and 2520] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.