

DEC 15 2016

Kenneth Richins
South Valley Farms
15443 Beech Avenue
Wasco, CA 93280

RE: Notice of Final Action - Authority to Construct
Facility Number: S-8555
Project Number: S-1163342

Dear Mr. Richins:

The Air Pollution Control Officer has issued the Authority to Construct permit to South Valley Farms for a 380 hp IC engine powering an irrigation pump, at Wasco, CA. Enclosed are the Authority to Construct permit and a copy of the notice of final action to be published approximately three days from the date of this letter.

Notice of the District's preliminary decision to issue the Authority to Construct permit was published on [November 11, 2016. The District's analysis of the proposal was also sent to CARB on November 7, 2016. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Leonard Scandura at (661) 392-5500.

Sincerely,



Arnaud Marjollet
Director of Permit Services

AM:rue

Enclosures

cc: Tung Le, CARB (w/enclosure) via email

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



Facility # S-8555
SOUTH VALLEY FARMS - RANCH 9B
15443 BEECH AVE
WASCO, CA 93280

AUTHORITY TO CONSTRUCT (ATC)

QUICK START GUIDE

1. **Pay Invoice:** Please pay enclosed invoice before due date.
2. **Fully Understand ATC:** Make sure you understand ALL conditions in the ATC prior to construction, modification and/or operation.
3. **Follow ATC:** You must construct, modify and/or operate your equipment as specified on the ATC. Any unspecified changes may require a new ATC.
4. **Notify District:** You must notify the District's Compliance Department, at the telephone numbers below, upon start-up and/or operation under the ATC. Please record the date construction or modification commenced and the date the equipment began operation under the ATC. You may NOT operate your equipment until you have notified the District's Compliance Department. A startup inspection may be required prior to receiving your Permit to Operate.
5. **Source Test:** Schedule and perform any required source testing. See http://www.valleyair.org/busind/comply/source_testing.htm for source testing resources.
6. **Maintain Records:** Maintain all records required by ATC. Records are reviewed during every inspection (or upon request) and must be retained for at least 5 years. Sample record keeping forms can be found at http://www.valleyair.org/busind/comply/compliance_forms.htm.

By operating in compliance, you are doing your part to improve air quality for all Valley residents.

**For assistance, please contact District Compliance staff at
any of the telephone numbers listed below.**

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Executive Director/Air Pollution Control Officer

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AUTHORITY TO CONSTRUCT

PERMIT NO: S-8555-6-0

ISSUANCE DATE: 12/12/2016

LEGAL OWNER OR OPERATOR: SOUTH VALLEY FARMS - RANCH 9B
MAILING ADDRESS: 15443 BEECH AVE
WASCO, CA 93280

LOCATION: SEC 17 & SW 1/4 SEC 16 27/26
ZACHARY AND JACKSON RD
KERN COUNTY, CA

EQUIPMENT DESCRIPTION:
380 HP CUMMINS MODEL GTA19 NATURAL GAS FIRED IC ENGINE WITH ALTRONICS CONTROLS AND CATALYST

CONDITIONS

1. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 1070]
2. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 1070]
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
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. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
6. This IC engine shall only be used for the growing and harvesting of crops or the raising of fowl or animals for the primary purpose of making a profit, providing a livelihood, or conducting agricultural research or instruction by an educational institution. [District Rules 4701 and 4702]
7. The Altronic Inc. EPC-50 AFRC System shall consist of an Altronic EPC50 air/fuel ratio controller, an EmeraChem EC-1200-04-S-CS three-way catalyst system, two Type K thermocouples, and Zirconia exhaust gas oxygen sensor. [District Rule 4702]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 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

S-8555-6-0, Dec 12 2016 10:43AM - EDGEHILR : Joint Inspection NOT Required

8. The Altronic Inc. EPC-50 AFRC System shall be installed, maintained and operated according to the component manufacturer's recommendations and shall be in place and operating at all times during engine operation. [District Rule 4702]
9. A person performing installation of or maintenance specific to the Altronic Inc. EPC-50 AFRC System shall be a certified employee of Coastal Ignition & Controls or Water Associates, or work under the direct and personal supervision of an individual physically present at the work site who is certified. [District Rule 4702]
10. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
11. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer, Coastal Ignition & Controls (CIC), or Water Associates. [District Rule 4702]
12. During periods of operation, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
13. This IC engine shall be fired on Public Utility Commission (PUC) regulated natural gas only. [District Rules 4702 and 4801]
14. The oxygen sensor shall be replaced every 2,000 hours of operation or when the EPC-50 controller indicates that an alarm code has been triggered for the sensor, whichever occurs earliest. Whenever the oxygen sensor is replaced, the Altronic Inc. EPC-50 AFRC System shall be calibrated, prior to resuming normal engine operation, according to the procedures outlined by equipment manufacturer. [District Rule 4702]
15. The catalyst module housing and elements shall be visually inspected at least once every calendar quarter. The catalyst shall be washed at least once every 8,640 hours of operation and replaced at least every 25,920 hours of operation. [District Rule 4702]
16. The thermocouples shall be replaced according to the manufacturer recommendations but at least every 36,000 hours of engine operation or every 48 calendar months, whichever comes first. Whenever the thermocouples are replaced, the Altronic Inc. EPC-50 AFRC System shall be calibrated, prior to resuming normal engine operation, according to the procedures outlined by Coastal Ignition & Controls. [District Rule 4702]
17. The pre- and post-catalyst exhaust temperatures shall be monitored and the temperature increase over the catalyst shall be recorded at initial system calibration. Both temperatures shall be monitored at least once in each calendar month that the engine operates. If the temperature increase over the catalyst becomes less than 50% of the initially determined value, the Altronic Inc. EPC-50 AFRC System shall be calibrated or repaired, as necessary. [District Rule 4702]
18. After the Altronic Inc. EPC-50 AFRC System is calibrated or repaired in response to a catalyst temperature drop, a District-approved portable analyzer shall be used to determine that the NO_x and CO emissions and O₂ levels are at or below permitted levels. The pre- and post-catalyst exhaust temperatures shall be monitored and the temperature increase over the catalyst shall be recorded at that time and the temperature increase over the catalyst shall be re-established. Monthly monitoring of the pre- and post-catalyst exhaust temperature shall resume as required in the previous condition, based on the new temperature increase value. [District Rule 4702]
19. Within 30 days after installation of the Altronic Inc. EPC-50 AFRC System, a District-approved portable analyzer shall be used to determine NO_x and CO emissions, and O₂ levels. All emission readings shall be taken with the unit operating at conditions representative of normal operations. The analyzer shall be calibrated, maintained, operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702]

CONDITIONS CONTINUE ON NEXT PAGE

20. Until this system receives Final Certification from the District, the NO_x, CO, and O₂ monitoring provisions specified above condition shall be conducted at least once every 12 months. Monitoring conducted as part of routine maintenance and repair actions may be used satisfy this requirement, so long as no more than twelve months elapses between monitoring actions. Should the 12 month deadline fall during a period of non-operation, the engine shall be monitoring within 30-calendar days of recommencing operations. [District Rule 4702]
21. If either the NO_x or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the allowable emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than eight (8) hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after eight (8) hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4702]
22. During the start-up inspection, the District shall be provided with written documentation that the emission control system is suitable for use on this engine and verify the engine's horsepower rating, exhaust flow rate, exhaust temperature, oil consumption, general mechanical condition and the available fuel supply pressure will satisfy the criteria for proper operation of the Altronic Inc. EPC-50 AFRC System, along with portable analyzer calibration records and results. [District Rule 4702]
23. NO_x emissions from this IC engine shall not exceed 90 ppmvd-NO_x @ 15% O₂ (equivalent to 1.3 g-NO_x/bhp-hr). [District Rules 2201 and 4702]
24. PM₁₀ emissions from this IC engine shall not exceed 0.075 g-PM₁₀/bhp-hr. [District Rule 2201]
25. Emissions from this IC engine shall not exceed any of the following limits: 1000 ppmvd CO @ 15% O₂ (equivalent to 8.49 g-CO/bhp-hr) or 50 ppmvd-VOC @ 15% O₂ (equivalent to 0.243 g-VOC/bhp-hr). [District Rules 2201 and 4702]
26. The operator shall maintain engine operating log records of: 1) the monthly engine hour meter reading; 2) the date and the engine hour meter reading at each oxygen sensor change, and thermocouples change; 3) the monthly pre- and post-catalyst exhaust temperatures monitoring data including the initial temperature differential and any subsequently determined temperature differentials; 4) the date and engine hour meter reading of each catalyst module inspection, washing, and replacement; and 5) fuel purchase records. [District Rule 4702]
27. 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]
28. Should Final Certification of the Altronic Inc. EPC-50 AFRC System not be achieved by June 30th, 2018, this engine shall be considered to be uncertified under Rule 4702 and subject to initial and periodic source testing every 60 months, portable analyzer monitoring every 24 months, and a District-approved monthly Inspection & Monitoring plan [District Rule 4702]
29. The District may revise and/or add requirements in the future as necessary to ensure the Altronic Inc. EPC-50 AFRC System operates according to its Interim Certification requirements. [District Rule 4702]