



APR 16 2010

Carl Morris
Gallo Cattle Company
P.O. Box 775
Atwater, CA 95301-0775

**RE: Notice of Final Action - Authority to Construct
Project Number: N-1073882**

Dear Mr. Morris:

The Air Pollution Control Officer has issued Authority to Construct permit to Gallo Cattle Company for increasing CO concentration for the 575 bhp biogas-fired rich burn internal combustion engine, at 10561 West Highway 140, Atwater, California.

Enclosed is a copy of 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 this Authority to Construct was published on March 12, 2010. The District's analysis of the proposal was also sent to CARB on March 9, 2010. No comments were received following the District's preliminary decision on this project.

Also enclosed is an invoice for the engineering evaluation fees pursuant to District Rule 3010. Please remit the amount owed, along with a copy of the attached invoice, within 60 days.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Rupi Gill at (209) 557-6400.

Sincerely,

David Warner
Director of Permit Services

DW: JK/cm

Enclosures

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



APR 16 2010

Mike Tollstrup, Chief
Project Assessment Branch
Stationary Source Division
California Air Resources Board
PO Box 2815
Sacramento, CA 95812-2815

RE: Notice of Final Action - Authority to Construct
Project Number: N-1073882

Dear Mr. Tollstrup:

The Air Pollution Control Officer has issued Authority to Construct permit to Gallo Cattle Company for increasing CO concentration for the 575 bhp biogas-fired rich burn internal combustion engine, at 10561 West Highway 140, Atwater, California.

Enclosed is a copy of 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.

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Merced Sun-Star

**NOTICE OF FINAL ACTION
FOR THE ISSUANCE OF AUTHORITY
TO CONSTRUCT PERMITS**

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Authority to Construct permit to Gallo Cattle Company for increasing CO concentration for the 575 bhp biogas-fired rich burn internal combustion engine, at 10561 West Highway 140, Atwater, California.

No comments were received following the District's preliminary decision on this project.

The application review for Project #N-1073882 is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the **SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 4800 ENTERPRISE WAY, MODESTO, CA 95356.**



AUTHORITY TO CONSTRUCT

PERMIT NO: N-1660-9-2

ISSUANCE DATE: 04/13/2010

LEGAL OWNER OR OPERATOR: GALLO CATTLE COMPANY
MAILING ADDRESS: PO BOX 775
ATWATER, CA 95301-0775

LOCATION: 10561 W HIGHWAY 140
ATWATER, CA

EQUIPMENT DESCRIPTION:

MODIFICATION OF: 575 BHP CATERPILLAR MODEL G399NA RICH BURN DIGESTER GAS-FIRED IC ENGINE EQUIPPED WITH MIRATECH NON-SELECTIVE CATALYST POWERING AN ELECTRICAL GENERATOR: INCREASE CO CONCENTRATIONS

CONDITIONS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
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]
3. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
4. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]
5. This engine shall only be fired on digester gas. [District Rule 2201]
6. The permittee shall utilize a nonresettable elapsed operating time meter. [District Rule 4702]
7. Sampling ports adequate for Hydrogen Sulfide (H2S) testing shall be provided in the fuel line both influent to and effluent from the H2S scrubber. [District Rule 2201]
8. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081]
9. NOx emissions shall not exceed 9.0 ppmvd @ 15% O2 (or 0.15 g/bhp-hr) referenced as NO2. [District Rules 2201, 4701 and 4702]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 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 Sadrejin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

N-1660-9-2: Apr 13 2010 9:50AM - KAH-LONJ : Joint Inspection NOT Required

10. CO emissions shall not exceed 1,100 ppmvd @ 15% O₂. [District Rules 2201, 4701 and 4702]
11. VOC emissions shall not exceed 20 ppmvd @ 15% O₂ referenced as methane. [District Rules 2201, 4701 and 4702]
12. PM₁₀ emissions shall not exceed 0.1 g/bhp-hr. [District Rule 2201]
13. The fuel line to the engine shall be equipped with a scrubber to reduce H₂S in the digester gas to a level at or below 59 ppmv. [District Rules 2201 and 4801]
14. Testing to demonstrate compliance with the fuel H₂S content limit of this permit shall be conducted weekly. Once eight consecutive weekly tests show compliance, the fuel H₂S content testing frequency may be reduced to once every calendar quarter. If a quarterly test shows a violation of the H₂S content limit of this permit, then weekly testing shall resume and continue until eight consecutive tests show compliance. Once compliance is shown on eight consecutive weekly tests, then testing may return to quarterly. The permittee shall keep records of the date and time of H₂S measurements, measured H₂S concentrations (ppmv) to demonstrate compliance with the permit limit. [District Rule 2201]
15. Source testing to demonstrate compliance with the permitted NO_x, CO, and VOC emission limits shall be conducted at least once every 24 months. [District Rules 4701 and 4702]
16. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 4701 and 4702]
17. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4701 and 4702]
18. Testing to measure the H₂S content of the fuel shall be conducted using either EPA Method 15 or ASTM Method D1072, D3031, D4084, D3246, D5504 or with the use of the Testo 350 XL portable analyzer. [District Rule 2201]
19. The following test methods shall be used for testing: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, VOC (ppmv) - EPA Method 18, 25A or 25B, or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. [District Rules 1081, 4701 and 4702]
20. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
21. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
22. The permittee shall monitor and record the stack concentration of NO_x, CO and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. The monthly monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Furthermore, the monthly monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 2201, 4701 and 4702]
23. 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 concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (6) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 2201, 4701 and 4702]
24. The permittee shall maintain records, on a monthly basis, that contain the following information: (1) total hours of operation; (2) type of fuel used; (3) maintenance or modifications performed; (4) monitoring data; and (5) compliance source test results. [District Rules 4701 and 4702]
25. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Monitoring (I&M) plan submitted to the District. [District Rule 4702]
26. This engine shall be operated within the ranges that the source testing has shown result in pollution concentrations within the emissions limits as specified on this permit. [District Rule 4702]

CONDITIONS CONTINUE ON NEXT PAGE

27. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702]
28. 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 Rules 4701 and 4702]