



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

OCT 26 2011

Mike Bartosch
County of Fresno Facility Services
4590 E Kings Canyon Rd
Fresno, CA 93702

RE: Notice of Final Action - Authority to Construct
Project Number: C-1112232

Dear Mr. Bartosch:

The Air Pollution Control Officer has issued Authority to Construct permits to County of Fresno Facility Services for modifying three boilers to comply with District Rule 4320, at 445 S Cedar Ave, Fresno, CA.

Enclosed are copies of the Authority to Construct permits 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 September 12, 2011. The District's analysis of the proposal was also sent to CARB on September 6, 2011. 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. Jim Swaney at (559) 230-5900.

Sincerely,

David Warner
Director of Permit Services

DW:gh

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
www.valleyair.org

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



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

OCT 26 2011

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: C-1112232

Dear Mr. Tollstrup:

The Air Pollution Control Officer has issued Authority to Construct permits to County of Fresno Facility Services for modifying three boilers to comply with District Rule 4320, at 445 S Cedar Ave, Fresno, CA.

Enclosed are copies of the Authority to Construct permits 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 September 12, 2011. The District's analysis of the proposal was also sent to CARB on September 6, 2011. 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. Jim Swaney at (559) 230-5900.

Sincerely,

David Warner
Director of Permit Services

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Fresno Bee

**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 permits to County of Fresno Facility Services for modifying three boilers to comply with District Rule 4320, at 445 S Cedar Ave, Fresno, CA.

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

The application review for Project #C-1112232 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, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726.**



AUTHORITY TO CONSTRUCT

PERMIT NO: C-1333-1-4

ISSUANCE DATE: 10/24/2011

LEGAL OWNER OR OPERATOR: COUNTY OF FRESNO FACILITY SERVICES

MAILING ADDRESS: 4590 E KINGS CANYON RD
FRESNO, CA 93702

LOCATION: 445 S CEDAR AVE
FRESNO, CA 93702

EQUIPMENT DESCRIPTION:

MODIFICATION OF 12.2 MMBTU/HR CLEAVER BROOKS MODEL CB 200-300-150 NATURAL GAS-FIRED BOILER WITH A CLEAVER BROOKS MODEL LE(15) 200-300 LOW NOX BURNER, FLUE GAS RECIRCULATION (FGR) SYSTEM AND FUEL OIL #2 AS BACKUP FUEL: MODIFY BURNER TO COMPLY WITH RULE 4320 EMISSION LIMITS.

CONDITIONS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. 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]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. When firing on natural gas, emissions from the unit shall not exceed any of the following limits: 9 ppmvd NOx @ 3% O2 or 0.011 lb-NOx/MMBtu, 0.00285 lb-SOx/MMBtu, 0.0076 lb-PM10/MMBtu, 400 ppmvd CO @ 3% O2 or 0.296 lb-CO/MMBtu, or 0.0042 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306 and 4320]
6. When firing on fuel oil #2, emissions from the unit shall not exceed any of the following limits: 150 ppmvd NOx @ 3% O2 or 0.19 lb-NOx/MMBtu, 0.0015 lb-SOx/MMBtu, 0.0143 lb-PM10/MMBtu, 200 ppmvd CO @ 3% O2 or 0.16 lb-CO/MMBtu, or 0.0022 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306 and 4320]
7. Carbon Monoxide (CO) emissions shall be limited to the CO emission rate achievable under normal operating conditions. The final CO emission rate shall be determined according to the conditions of this permit, to the satisfaction of the Air Pollution Control Officer, based on 12 months of operating history. [District Rule 2201]

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


DAVID WARNER, Director of Permit Services

C-1333-1-4, 10/24/2011 4:45PM - HEINENG : Joint Inspection NOT Required

8. Within 12 months of the initial operation, the operator shall prepare and submit to the District a report proposing the final CO limitations, in both ppmv and lb/MMBtu/hr, for inclusion in this permit. The report shall provide all relevant information and data. [District Rule 2201]
9. The District shall establish the final CO emission rate and incorporate the limitations into the permit within 90 days of receipt of the operator's report. In no case shall the final CO limitation be greater than 400 ppmv, at 3% oxygen. [District Rule 2201]
10. The unit shall only be fired on PUC-regulated natural gas as the primary fuel and fuel oil #2 as the backup fuel. [District Rules 2201 and 4320]
11. Sulfur content of fuel oil #2 shall not exceed 0.0015% by weight. [District Rules 2201 and 4320]
12. The unit shall be fired on fuel oil #2 as backup fuel only during natural gas curtailment for no more than 168 cumulative hours in a calendar year plus 48 hours per calendar year for equipment testing. [District Rules 2201, 4305, 4306, 4320]
13. If the unit is fired on fuel oil #2 as backup fuel for a period exceeding 48 cumulative hours in a calendar year, the permittee shall monitor and record the stack concentration of NO_x at least once during that year using an APCO approved portable NO_x analyzer. Monitoring for backup fuel NO_x emissions shall not be required when the unit is operating on primary fuel, i.e. the unit need not be fired on backup fuel solely to perform monitoring. [District Rules 4305, 4306, and 4320]
14. Records of daily and annual backup fuel consumption consisting of the date the boiler operated on fuel oil #2 as backup fuel and the amount of time the boiler was operated, in hours, on fuel oil #2 shall be maintained. [District Rules 2201, 4305, 4306, and 4320]
15. 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]
16. Backup fuel NO_x emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and 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 Rules 4305 and 4306]
17. The permittee shall maintain records of: (1) the date and time of backup fuel NO_x measurements, (2) the measured backup fuel NO_x concentration (in ppmv or lb/MMBtu) corrected to 3% O₂, (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 Rules 4305 and 4306]
18. 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. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320]
19. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, 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 Rules 4305, 4306 and 4320]

CONDITIONS CONTINUE ON NEXT PAGE

20. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and 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 Rules 4305, 4306, and 4320]
21. 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 3% O₂, (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 Rules 4305, 4306 and 4320]
22. Source testing shall be conducted using the methods and procedures approved by the District. 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]
23. Source testing to measure NO_x and CO emissions from this unit while fired on natural gas shall be conducted within 60 days of initial start-up. [District Rules 2201, 4305, 4306 and 4320]
24. Source testing to measure NO_x and CO emissions from this unit while fired on natural gas shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305, 4306 and 4320]
25. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320]
26. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320]
27. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320]
28. Fuel sulfur content shall be determined using EPA Method 11 or Method 15. [District Rule 4320]
29. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320]
30. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320]
31. 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 4305, 4306 and 4320]
32. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
33. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 4305, 4306, and 4320]



AUTHORITY TO CONSTRUCT

PERMIT NO: C-1333-2-4

ISSUANCE DATE: 10/24/2011

LEGAL OWNER OR OPERATOR: COUNTY OF FRESNO FACILITY SERVICES

MAILING ADDRESS: 4590 E KINGS CANYON RD
FRESNO, CA 93702

LOCATION: 445 S CEDAR AVE
FRESNO, CA 93702

EQUIPMENT DESCRIPTION:

MODIFICATION OF 12.2 MMBTU/HR CLEAVER BROOKS MODEL CB 200-300-150 NATURAL GAS-FIRED BOILER WITH A CLEAVER BROOKS MODEL LE(15) 200-300 LOW NOX BURNER, FLUE GAS RECIRCULATION (FGR) SYSTEM AND FUEL OIL #2 AS BACKUP FUEL:MODIFY BURNER TO COMPLY WITH RULE 4320 EMISSION LIMITS.

CONDITIONS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. 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]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. When firing on natural gas, emissions from the unit shall not exceed any of the following limits: 9 ppmvd NOx @ 3% O2 or 0.011 lb-NOx/MMBtu, 0.00285 lb-SOx/MMBtu, 0.0076 lb-PM10/MMBtu, 400 ppmvd CO @ 3% O2 or 0.296 lb-CO/MMBtu, or 0.0042 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306 and 4320]
6. When firing on fuel oil #2, emissions from the unit shall not exceed any of the following limits: 150 ppmvd NOx @ 3% O2 or 0.19 lb-NOx/MMBtu, 0.0015 lb-SOx/MMBtu, 0.0143 lb-PM10/MMBtu, 200 ppmvd CO @ 3% O2 or 0.16 lb-CO/MMBtu, or 0.0022 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306 and 4320]
7. Carbon Monoxide (CO) emissions shall be limited to the CO emission rate achievable under normal operating conditions. The final CO emission rate shall be determined according to the conditions of this permit, to the satisfaction of the Air Pollution Control Officer, based on 12 months of operating history. [District Rule 2201]

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


DAVID WARNER, Director of Permit Services

C-1333-2-4 Oct 24 2011 4:45PM - HEINENG : Joint Inspection NOT Required

8. Within 12 months of the initial operation, the operator shall prepare and submit to the District a report proposing the final CO limitations, in both ppmv and lb/MMBtu/hr, for inclusion in this permit. The report shall provide all relevant information and data. [District Rule 2201]
9. The District shall establish the final CO emission rate and incorporate the limitations into the permit within 90 days of receipt of the operator's report. In no case shall the final CO limitation be greater than 400 ppmv, at 3% oxygen. [District Rule 2201]
10. The unit shall only be fired on PUC-regulated natural gas as the primary fuel and fuel oil #2 as the backup fuel. [District Rules 2201 and 4320]
11. Sulfur content of fuel oil #2 shall not exceed 0.0015% by weight. [District Rules 2201 and 4320]
12. The unit shall be fired on fuel oil #2 as backup fuel only during natural gas curtailment for no more than 168 cumulative hours in a calendar year plus 48 hours per calendar year for equipment testing. [District Rules 2201, 4305, 4306, 4320]
13. If the unit is fired on fuel oil #2 as backup fuel for a period exceeding 48 cumulative hours in a calendar year, the permittee shall monitor and record the stack concentration of NOx at least once during that year using an APCO approved portable NOx analyzer. Monitoring for backup fuel NOx emissions shall not be required when the unit is operating on primary fuel, i.e. the unit need not be fired on backup fuel solely to perform monitoring. [District Rules 4305, 4306, and 4320]
14. Records of daily and annual backup fuel consumption consisting of the date the boiler operated on fuel oil #2 as backup fuel and the amount of time the boiler was operated, in hours, on fuel oil #2 shall be maintained. [District Rules 2201, 4305, 4306, and 4320]
15. Backup fuel NOx emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and 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 Rules 4305 and 4306]
16. The permittee shall maintain records of: (1) the date and time of backup fuel NOx measurements, (2) the measured backup fuel NOx concentration (in ppmv or lb/MMBtu) corrected to 3% O₂, (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 Rules 4305 and 4306]
17. The permittee shall monitor and record the stack concentration of NOx, 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. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306 and 4320]
18. If either the NOx or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, 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 Rules 4305, 4306 and 4320]

CONDITIONS CONTINUE ON NEXT PAGE

19. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and 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 Rules 4305, 4306, and 4320]
20. 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 3% O₂, (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 Rules 4305, 4306 and 4320]
21. Source testing shall be conducted using the methods and procedures approved by the District. 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]
22. Source testing to measure NO_x and CO emissions from this unit while fired on natural gas shall be conducted within 60 days of initial start-up. [District Rules 2201, 4305, 4306 and 4320]
23. Source testing to measure NO_x and CO emissions from this unit while fired on natural gas shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305, 4306 and 4320]
24. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306 and 4320]
25. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306 and 4320]
26. 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]
27. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306 and 4320]
28. Fuel sulfur content shall be determined using EPA Method 11 or Method 15. [District Rule 4320]
29. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306 and 4320]
30. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306 and 4320]
31. 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 4305, 4306 and 4320]
32. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
33. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 4305, 4306, and 4320]



AUTHORITY TO CONSTRUCT

PERMIT NO: C-1333-10-2

ISSUANCE DATE: 10/24/2011

LEGAL OWNER OR OPERATOR: COUNTY OF FRESNO FACILITY SERVICES

MAILING ADDRESS: 4590 E KINGS CANYON RD
FRESNO, CA 93702

LOCATION: 445 S CEDAR AVE
FRESNO, CA 93702

EQUIPMENT DESCRIPTION:

MODIFICATION OF 12.2 MMBTU/HR CLEAVER BROOKS MODEL CB 200-300-150 NATURAL GAS-FIRED BOILER WITH A CLEAVER BROOKS MODEL LE(15) 200-300 LOW NOX BURNER, FLUE GAS RECIRCULATION (FGR) SYSTEM AND FUEL OIL #2 AS BACKUP FUEL: CONVERT TO DORMANT STATUS.

CONDITIONS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. 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]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. Until July 1, 2012, when firing on natural gas, emissions from the unit shall not exceed any of the following limits: 15 ppmvd NOx @ 3% O2 or 0.018 lb-NOx/MMBtu, 0.00285 lb-SOx/MMBtu, 0.0076 lb-PM10/MMBtu, 200 ppmvd CO @ 3% O2 or 0.15 lb-CO/MMBtu, or 0.0042 lb-VOC/MMBtu. [District Rules 2201, 4305, and 4306]
6. Until July 1, 2012, when firing on fuel oil #2, emissions from the unit shall not exceed any of the following limits: 150 ppmvd NOx @ 3% O2 or 0.19 lb-NOx/MMBtu, 0.0507 lb-SOx/MMBtu, 0.0143 lb-PM10/MMBtu, 200 ppmvd CO @ 3% O2 or 0.16 lb-CO/MMBtu, or 0.022 lb-VOC/MMBtu. [District Rules 2201, 4305 and 4306]
7. After July 1, 2012, operation of the unit is not authorized until modifications are made to comply with District Rules as authorized by an Authority to Construct. [District Rule 2010]
8. While dormant, the fuel line shall be physically disconnected from the unit. (Adjust as necessary) [District Rule 2080]

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



DAVID WARNER, Director of Permit Services

1333-10-1 : Oct 24 2011 4:45PM - HEINENG : Joint Inspection NOT Required

9. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080]
10. While dormant, normal source testing shall not be required. [District Rule 2080]
11. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080]
12. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080]
13. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070]
14. The unit shall only be fired on PUC-regulated natural gas as the primary fuel and fuel oil #2 as the backup fuel. [District Rule 2201]
15. Sulfur content of fuel oil #2 shall not exceed 0.05% by weight. [District Rules 2201]
16. The unit shall be fired on fuel oil #2 as backup fuel only during natural gas curtailment for no more than 168 cumulative hours in a calendar year plus 48 hours per calendar year for equipment testing. [District Rules 2201, 4305 and 4306]
17. If the unit is fired on fuel oil #2 as backup fuel for a period exceeding 48 cumulative hours in a calendar year, the permittee shall monitor and record the stack concentration of NO_x at least once during that year using an APCO approved portable NO_x analyzer. Monitoring for backup fuel NO_x emissions shall not be required when the unit is operating on primary fuel, i.e. the unit need not be fired on backup fuel solely to perform monitoring. [District Rules 4305 and 4306]
18. Records of daily and annual backup fuel consumption consisting of the date the boiler operated on fuel oil #2 as backup fuel and the amount of time the boiler was operated, in hours, on fuel oil #2 shall be maintained. [District Rules 2201, 4305 and 4306]
19. Backup fuel NO_x emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and 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 Rules 4305 and 4306]
20. The permittee shall maintain records of: (1) the date and time of backup fuel NO_x measurements, (2) the measured backup fuel NO_x concentration (in ppmv or lb/MMBtu) corrected to 3% O₂, (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 Rules 4305 and 4306]
21. 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. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306]
22. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, 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 Rules 4305 and 4306]

CONDITIONS CONTINUE ON NEXT PAGE

23. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and 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 Rules 4305 and 4306]
24. 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 3% O₂, (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 Rules 4305 and 4306]
25. Source testing shall be conducted using the methods and procedures approved by the District. 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]
26. Source testing to measure NO_x and CO emissions from this unit while fired on natural gas shall be conducted within 60 days of initial start-up. [District Rules 2201, 4305 and 4306]
27. Source testing to measure NO_x and CO emissions from this unit while fired on natural gas shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 4305 and 4306]
28. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305 and 4306]
29. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305 and 4306]
30. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306]
31. Fuel sulfur content shall be determined using EPA Method 11 or Method 15. [District Rule 4320]
32. 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]
33. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305 and 4306]
34. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305 and 4306]
35. 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 4305 and 4306]
36. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
37. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070, 4305 and 4306]