



SEP 24 2013

Lyle Schlyer
Pixley Cogen Partners
P.O. Box 891
Pixley, CA 93256

RE: Notice of Final Action - Authority to Construct
Facility Number: S-6534
Project Number: S-1131975

Dear Mr. Schlyer:

The Air Pollution Control Officer has issued the Authority to Construct permits to Pixley Cogen Partners for installation of one 5.67 MW (ISO rated) combined heat and power (CHP) cogeneration system consisting of one 67.65 MMBtu/hr natural gas-fired Solar Model Taurus 60 (T-60) turbine and one 106.4 natural gas/biogas-fired MMBtu/hr Rentech duct burner with Rentech selective catalytic reduction (SCR) and CO catalyst and Heat Recovery Steam Generator (HRSG), at 11222 Road 120, Pixley, CA. Enclosed are 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 the Authority to Construct permits was published on August 5, 2013. The District's analysis of the proposal was also sent to CARB on July 30, 2013. 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.

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95358-8718
Tel: (209) 557-6400 FAX: (209) 557-8475

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

Southern Region
34948 Flyover Court
Bakersfield, CA 93308-8725
Tel: 861-392-5500 FAX: 861-392-5585

Mr. Lyle Schlyer
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Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Jim Swaney at (559) 230-6000.

Sincerely,

A handwritten signature in black ink, appearing to read "David Warner", with a long horizontal flourish extending to the right.

David Warner
Director of Permit Services

DW:st

Enclosures

cc: Mike Tollstrup, CARB (w/enclosure) via email

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

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued the Authority to Construct permits to Pixley Cogen Partners for installation of one 5.67 MW (ISO rated) combined heat and power (CHP) cogeneration system consisting of one 67.65 MMBtu/hr natural gas-fired Solar Model Taurus 60 (T-60) turbine and one 106.4 natural gas/biogas-fired MMBtu/hr Rentech duct burner with Rentech selective catalytic reduction (SCR) and CO catalyst and Heat Recovery Steam Generator (HRSG), at 11222 Road 120, Pixley, CA.

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

The application review for Project #S-1131975 is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm, the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726, and at any other District office. For additional information, please contact the District at (559) 230-6000.



AUTHORITY TO CONSTRUCT

PERMIT NO: S-6534-3-4

ISSUANCE DATE: 09/18/2013

LEGAL OWNER OR OPERATOR: PIXLEY COGEN PARTNERS

MAILING ADDRESS: P O BOX 891
PIXLEY, CA 93256-0891

LOCATION: 11222 ROAD 120
PIXLEY, CA 93256

EQUIPMENT DESCRIPTION:

MODIFICATION OF 5.432 MW ELECTRIC POWER GENERATION SYSTEM (COMBINED CYCLE CONFIGURATION) CONSISTING OF A 67.1 MMBTU/HR (BASED ON THE HIGHER HEATING VALUE OF NATURAL GAS) SOLAR MODEL #TAURUS 65-8401S NATURAL GAS-FIRED COMBUSTION TURBINE WITH A 106.4 MMBTU/HR (BASED ON THE HIGHER HEATING VALUE OF NATURAL GAS) NATURAL GAS-FIRED DUCT BURNER, ALL SERVED BY A CO CATALYST AND A SELECTIVE CATALYTIC REDUCTION SYSTEM WITH AMMONIA INJECTION: LIMIT COMBINED HEAT INPUT FOR DUCT BURNERS LISTED ON PERMITS S-6534-3 AND '5 TO 106.4 MMBTU/HR

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. 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. A selective catalytic reduction (SCR) system and an oxidation catalyst shall serve the gas turbine engine and duct burner. Exhaust ducting may be equipped (if required) with a fresh air inlet blower, to lower the exhaust temperature prior to the inlet of the SCR catalyst. [District Rule 2201]
6. The turbine/electrical generator shall be equipped with an air inlet filter and a lube oil vent coalescer (or equivalent). [District Rule 2201]
7. The duct burners listed in permits S-6534-3 and S-6534-5 shall not exceed a combined heat input limit of 106.4 MMBtu/hr (based on the higher heating value of natural gas). [District Rule 2201]

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



DAVID WARNER, Director of Permit Services
S-6534-3-4: Sep 18 2013 12:53PM - TOMS : Joint Inspection NOT Required

8. This unit shall be fired exclusively on PUC-regulated natural gas and the PUC-regulated natural gas shall have a total sulfur content of less than or equal to 1.0 gr/100 scf. [40 CFR 60.4330 and District Rules 2201 and 4801]
9. During startup of the unit, emissions shall not exceed any of the following limits: 2.9 lb-NO_x (as NO₂)/startup; 18.9 lb-CO/startup; or 2.1 lb-VOC(as methane)/startup. [District Rule 2201]
10. During shutdown of the unit, emissions shall not exceed any of the following limits: 0.5 lb-NO_x (as NO₂/shutdown; 5.6 lb-CO/shutdown; or 0.5 lb-VOC (as methane)/shutdown. [District Rule 2201]
11. NO_x, CO, and VOC emissions (with duct burner firing and measured after the CO Catalyst and the SCR Catalyst), except during periods of thermal stabilization or reduced load, shall not exceed any of the following limits: NO_x (as NO₂) - 2.5 ppmvd @ 15% O₂ or 1.60 lb/hr; CO - 6.0 ppmvd @ 15% O₂ or 2.33 lb/hr; VOC (as methane) - 2.0 ppmvd @ 15% O₂ or 0.44 lb/hr. All emissions concentration limits are based on three hour rolling averages. [District Rules 2201, 4001, 4703, 40 CFR 60.4320, and 40 CFR 60.44b(a)(4)(i)]
12. PM₁₀ emissions from this unit (with duct burner firing and measured after the CO Catalyst and the SCR Catalyst) shall not exceed either of the following limits: 2.78 lb/hr or 0.016 lb/MMBtu. [District Rule 2201 and 40 CFR 60.43b(h)(i)]
13. SO_x emissions (with or without the duct burner firing) shall not exceed 0.00285 lb/MMBtu. [District Rule 2201 and 40 CFR 60.4330]
14. NO_x, CO, and VOC emissions rates (without duct burner firing and measured after the CO Catalyst and the SCR Catalyst), except during periods of thermal stabilization or reduced load, shall not exceed any of the following limits: NO_x (as NO₂) 2.5 ppmvd @ 15% O₂ or 0.62 lb/hr; CO - 6.0 ppmvd @ 15% O₂ or 0.90 lb/hr; and VOC (as methane) - 2.0 ppmvd @ 15% O₂ or 0.17 lb/hr. All emissions concentration limits are based on three hour rolling averages. [District Rules 2201, 4001, 4703, 40 CFR 60.4320, and 40 CFR 60.44b(a)(4)(i)]
15. PM₁₀ emissions from this unit (without duct burner firing and measured after the CO Catalyst and the SCR Catalyst) shall not exceed either of the following limits: 1.07 lb/hr or 0.016 lb/MMBtu. [District Rule 2201]
16. Startup shall be defined as the period of time during which a unit is brought from a shutdown status to its SCR operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status as the fuel supply to the unit is completely turned off. [District Rules 2201 and 4703]
17. The duration of each startup or shutdown shall not exceed 30 minutes and 10 minutes respectively. Startup and shutdown emissions shall be counted toward all applicable emission limits. [District Rules 2201 and 4703]
18. The ammonia slip (NH₃) emissions (with duct burner firing) shall not exceed either of the following limits: 2.23 lb/hr or 10.0 ppmvd @15% O₂ (based on a 24 hour rolling average). [District Rule 2201]
19. The ammonia slip (NH₃) emissions (without the duct burner firing) shall not exceed either of the following limits: 0.93 lb/hr or 10.0 ppmvd @15% O₂ (based on a 24 hour rolling average). [District Rule 2201]
20. Annual emissions from the turbine and duct burner system (S-6534-3, as measured after the CO Catalyst and SCR Catalyst), including startup and shutdown emissions, shall not exceed any of the following limits: 14,138 lb-NO_x (as NO₂)/year; 19,999 lb-CO/year, 4,014 lb-VOC (as methane)/year; 4,335 lb-SO_x (as SO₂)/year; 19,999 lb-PM₁₀/year, or 19,999 lb-NH₃/year. All annual emissions limits are based on 12 consecutive month rolling emissions totals. [District Rule 2201]
21. Each calendar month in a twelve consecutive month rolling emissions total will commence at the beginning of the first day of the month. The twelve consecutive month rolling emissions totals to determine compliance with annual emission limits will be compiled from the twelve most recent calendar months. [District Rule 2201]
22. Permittee shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100]
23. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100]

24. Performance testing to measure the NO_x (ppmvd), CO (ppmvd), VOC (ppmvd), and NH₃ (ppmvd) emissions shall be conducted within 120 days of startup (not including commissioning) and at least once every twelve months thereafter. [District Rules 2201, 4001, 4703, and 40 CFR 60.46]
25. Performance testing to measure the PM₁₀ emissions (lb/hr) shall be conducted within 120 days of startup (not including commissioning). [District Rule 2201]
26. Any gas turbine with an intermittently operated auxiliary burner shall demonstrate compliance with the auxiliary burner both on and off. [District Rule 4703]
27. The owner or operator shall be required to conform to the sampling facilities and testing procedures described in District Rule 1081 (as amended 12/16/93), Sections 3.0 and 6.1. [District Rule 1081]
28. The District must be notified 30 days prior to any performance testing and a test plan shall be submitted for District Approval 15 days prior to such testing. [District Rule 1081]
29. Performance testing shall be witnessed or authorized by District personnel. Test results must be submitted to the District within 60 days of performance testing. [District Rule 1081]
30. NO_x emissions (referenced as NO₂) shall be determined using EPA Method 7E or EPA Method 20. The test results shall be corrected to ISO standard conditions as defined in 40 CFR 60.4400. [District Rules 1081, 2201, 4001, and 4703]
31. VOC emissions (referenced as methane) shall be determined using EPA Method 18 or EPA Method 25. [District Rules 1081 and 2201]
32. CO emissions shall be determined using EPA Method 10 or EPA Method 10B. [District Rule 1081, 2201, and 4703]
33. Source testing to measure PM₁₀ emissions shall be conducted using EPA Methods 201 and 202, or EPA Methods 201A and 202, or CARB Method 501 in conjunction with CARB Method 5. [District Rules 1081 and 2201]
34. Ammonia (NH₃) emissions shall be determined using BAAQMD Method ST-1B. [District Rules 1081, 2201, and 4102]
35. The oxygen content of the exhaust gas shall be determined by using EPA Method 3, EPA Method 3A, or EPA Method 20. [District Rules 1081, 2201, and 4102]
36. Ammonia shall be injected whenever the selective catalytic reduction system catalyst temperature exceeds the minimum ammonia injection temperature recommended by the manufacturer. [District Rule 2201]
37. During initial performance testing, the ammonia injection rate shall be monitored concurrently with each testing run to establish acceptable values and ranges that provide a reasonable assurance of ongoing compliance with the emissions limitations stated in this permit (with or without the duct burner operating). The minimum ammonia injection rate(s) demonstrated during the initial performance test to result in compliance with the NO_x emission limits shall be imposed as a condition in the Permit to Operate. [District Rules 2201 and 4703]
38. If the ammonia injection rate is less than the minimum ammonia injection rate demonstrated during the initial compliance test, the permittee shall return the ammonia injection rate above the minimum ammonia injection rate established during compliance testing as soon as possible, but no longer than 8 hours after detection. If the ammonia injection rate is not returned above the minimum ammonia injection rate established during compliance testing within 8 hours, the permittee shall notify the District within the following 1 hour and conduct a source test within 60 days of the first exceedance to demonstrate compliance with the applicable emission limits at the reduced ammonia injection rate. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must 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 the performing the notification and testing required by this condition. [District Rules 2201 and 4703]

39. The permittee shall monitor and record the stack concentration of NO_x (as NO₂), CO, and O₂ weekly. If compliance with the NO_x and CO emissions is demonstrated for eight (8) consecutive weeks, then the monitoring frequency will be reduced to monthly. If deviations are observed in two consecutive months, monitoring shall revert to weekly until 8 consecutive weeks show no deviations. 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 one (1) day of restarting the unit unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the week if on a weekly monitoring schedule. [District Rules 2201 and 4703]
40. If the NO_x and/or CO concentrations, as measured by the permittee with a portable analyzer, exceed the permitted emission limits, the permittee shall notify the District and return the NO_x and CO concentrations to the permitted emission limits as soon as possible but no longer than eight (8) hours after detection. If the permittee's portable analyzer readings continue to exceed the permitted emissions limits after eight (8) hours, the permittee shall notify the District within the following one (1) hour, and conduct a certified source test within 60 days to demonstrate compliance with the permitted emissions limits. In lieu of conducting a source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must 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 2201 and 4703]
41. The owner or operator shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up time and stop time, length and reason for reduced load periods, total hours of operation, and the type and quantity of fuel used. [District Rule 4703]
42. The permittee shall provide notification and recordkeeping as required under 40 CFR, Part 60, Subpart A, 60.7. [District Rule 4001]
43. The facility shall maintain a record of the cumulative 12 month rolling NO_x, CO, VOC, SO_x, PM₁₀, and NH₃ emissions total, in lb/year, from this unit. These records shall be updated at the end of each month. [District Rule 2201]
44. The facility shall maintain a daily record of the ammonia injection rate and SCR catalyst inlet temperature. [District Rule 2201]
45. The sulfur fuel content of each fuel source shall be: (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract or (ii) monitored weekly using ASTM Methods D4084, D5504, D6228, or Gas Processors Association Standard 2377. If the sulfur fuel content is less than 1.0 gr/100 scf for 8 consecutive weeks, then the monitoring frequency shall be every 6 months. If any six-month monitoring tests result in a sulfur fuel content exceedance, weekly monitoring shall resume. [40 CFR 60.4365]
46. Compliance with ammonia emission limit shall be demonstrated utilizing one of the following procedures: 1) The permittee may utilize a continuous in-stack ammonia monitor to verify compliance with the ammonia emissions limit. 2) The permittee may utilize a District-approved calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% O₂. The permittee shall submit a detailed calculation protocol or monitoring plan for District Approval at least 60 days prior to the commencement of operation. [District Rules 2201 and 4102]
47. Permittee shall submit notification of the initial startup of the duct burner, as provided by 40 CFR Part 60 Section 60.7 to the EPA administrator. The notification shall include the design heat input capacity of the duct burner, identify the fuels to be combusted in the duct burner, and a copy of the performance test data from the initial performance tests for NO_x emissions from the turbine and duct burner. [40 CFR 60.49b(b)]
48. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]



AUTHORITY TO CONSTRUCT

PERMIT NO: S-6534-5-0

ISSUANCE DATE: 09/18/2013

LEGAL OWNER OR OPERATOR: PIXLEY COGEN PARTNERS

MAILING ADDRESS: P O BOX 891
PIXLEY, CA 93256-0891

LOCATION: 11222 ROAD 120
PIXLEY, CA 93256

EQUIPMENT DESCRIPTION:

5.67 MW ELECTRIC POWER GENERATION SYSTEM (COMBINED CYCLE CONFIGURATION), CONSISTING OF A 67.65 MMBTU/HR (BASED ON THE HIGHER HEATING VALUE OF NATURAL GAS) SOLAR MODEL #TAURUS60-7901S NATURAL GAS-FIRED COMBUSTION TURBINE WITH A 106.4 MMBTU/HR (BASED ON THE HIGHER HEATING VALUE OF NATURAL GAS) NATURAL GAS/BIOGAS-FIRED DUCT BURNER, ALL SERVED BY A CO CATALYST AND A RENTECH SELECTIVE CATALYTIC REDUCTION SYSTEM WITH AMMONIA INJECTION AND A HEAT RECOVERY STEAM GENERATOR

CONDITIONS

1. The owner/operator of the Pixley Cogeneration Plant shall minimize the emissions from the gas turbine system to the maximum extent possible during the commissioning period. Conditions #3 through #10 shall apply only during the commissioning period as defined below. Unless otherwise indicated, Conditions #11 through #63 shall apply after the commissioning period has ended. [District Rule 2201]
2. Commissioning activities are defined as, but not limited to, all testing, adjustment, tuning, and calibration activities recommended by the equipment manufacturers and the Pixley Cogeneration Plant construction contractor to ensure safe and reliable steady state operation of the gas turbine and associated electrical delivery systems. [District Rule 2201]
3. The commissioning period shall commence when all mechanical, electrical, and control systems are installed and individual system startup has been completed, or when the gas turbine is first fired, whichever comes first. The commissioning period shall terminate when the plant has completed initial performance testing, completed final plant tuning, and is available for commercial operation. [District Rule 2201]

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


DAVID WARNER, Director of Permit Services
S-6534-5-0: Sep 18 2013 12:53PM -- TOMS : Joint Inspection NOT Required

4. At the earliest feasible opportunity, in accordance with the recommendations of the equipment manufacturer and the construction contractor, the combustors of the gas turbine shall be shall be tuned to minimize emissions. [District Rule 2201]
5. At the earliest feasible opportunity, in accordance with the recommendations of the equipment manufacturer and the construction contractor, the Selective Catalytic Reduction (SCR) system and the oxidation catalyst shall be installed, adjusted, and operated to minimize emissions from this unit. [District Rule 2201]
6. Coincident with the steady-state operation of the SCR system and the oxidation catalyst, NO_x, CO, and VOC emissions from this unit shall comply with the limits specified in conditions #23 and #25. [District Rule 2201]
7. The permittee shall submit a plan to the District at least four weeks prior to the first firing of this unit, describing the procedures to be followed during the commissioning period. The plan shall include a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the tuning of the combustors, the installation of operation of the SCR system and the oxidation catalyst, and any activities requiring the firing of this unit without abatement by the SCR system or oxidation catalyst. [District Rule 2201]
8. Emissions rates from this unit, during the commissioning period, shall not exceed any of the following limits: NO_x: 9.74 lb/hr (as NO₂); SO_x: 0.19 lb/hr (as SO₂); PM₁₀: 0.88 lb/hr; CO: 347.70 lb/hr; VOC: 7.53 lb/hr (as methane); or NH₃: 0.45 lb/hr. [District Rule 2201]
9. The total number of firing hours for this unit without abatement of emissions by the SCR system and the oxidation catalyst shall not exceed 96 hours during the commissioning period. Such operation of this unit without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR system and the oxidation catalyst in place. The applicant shall keep a record of the number of hours the unit is fired without an abatement of emissions by the SCR system or the oxidation catalyst. Upon completion of these activities, the permittee shall provide written notice to the District and the unused balance of the 96 firing hours without abatement shall expire. [District Rule 2201]
10. The total mass emissions of NO_x, SO_x, PM₁₀, CO, and VOC that are emitted during the commissioning period shall accrue towards the consecutive twelve month emission limits specified in condition #32. [District Rule 2201]
11. 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]
12. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
13. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
14. 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]
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. A selective catalytic reduction (SCR) system and an oxidation catalyst shall serve the gas turbine engine and duct burner. Exhaust ducting may be equipped (if required) with a fresh air inlet blower, to lower the exhaust temperature prior to the inlet of the SCR catalyst. [District Rule 2201]
17. The turbine/electrical generator shall be equipped with an air inlet filter and a lube oil vent coalescer (or equivalent). [District Rule 2201]
18. The duct burners listed in permits S-6534-3 and S-6534-5 shall not exceed a combined heat input limit of 106.4 MMBtu/hr (based on the higher heating value of natural gas). [District Rule 2201 and 4102]
19. The turbine shall be fired exclusively on PUC-regulated natural gas and the PUC-regulated natural gas shall have a total sulfur content of less than or equal to 1.0 gr/100 scf (equivalent to 1.97 ppmv in the exhaust). [District Rules 2201 and 4801 and 40 CFR 60.4330]
20. The duct burner shall be fired on PUC-regulated natural gas and/or biogas or any mixture thereof and shall have a total sulfur content of less than or equal to 0.75 gr/100 scf (equivalent to 1.48 ppmv in the exhaust). [District Rules 2201 and 4801 and 40 CFR 60.4330]

21. During startup of the unit, emissions shall not exceed any of the following limits: 0.8 lb-NO_x (as NO₂)/startup; 78.5 lb-CO/startup; or 1.3 lb-VOC(as methane)/startup. [District Rule 2201]
22. During shutdown of the unit, emissions shall not exceed any of the following limits: 0.4 lb-NO_x (as NO₂/shutdown; 34.7 lb-CO/shutdown; or 0.5 lb-VOC (as methane)/shutdown. [District Rule 2201]
23. NO_x, CO, and VOC emissions (with duct burner firing and measured after the CO Catalyst and the SCR Catalyst), except during periods of thermal stabilization or reduced load, shall not exceed any of the following limits: NO_x (as NO₂) - 2.5 ppmvd @ 15% O₂ or 1.58 lb/hr; CO - 6.0 ppmvd @ 15% O₂ or 2.29 lb/hr; VOC (as methane) - 2.0 ppmvd @ 15% O₂ or 0.44 lb/hr. All emissions concentration limits are based on three hour rolling averages. [District Rules 2201 and 4703 and 40 CFR 60.4320]
24. PM₁₀ emissions from this unit (with duct burner firing and measured after the CO Catalyst and the SCR Catalyst) shall not exceed either of the following limits: 2.26 lb/hr or 0.013 lb/MMBtu. [District Rule 2201]
25. NO_x, CO, and VOC emissions rates (without duct burner firing and measured after the CO Catalyst and the SCR Catalyst), except during periods of thermal stabilization or reduced load, shall not exceed any of the following limits: NO_x (as NO₂) 2.5 ppmvd @ 15% O₂ or 0.61 lb/hr; CO - 6.0 ppmvd @ 15% O₂ or 0.89 lb/hr; and VOC (as methane) - 2.0 ppmvd @ 15% O₂ or 0.17 lb/hr. All emissions concentration limits are based on three hour rolling averages. [District Rules 2201 and 4703 and 40 CFR 60.4320]
26. PM₁₀ emissions from this unit (without duct burner firing and measured after the CO Catalyst and the SCR Catalyst) shall not exceed either of the following limits: 0.88 lb/hr or 0.013 lb/MMBtu. [District Rule 2201]
27. Startup shall be defined as the period of time during which a unit is brought from a shutdown status to its SCR operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status as the fuel supply to the unit is completely turned off. [District Rules 2201 and 4703]
28. The duration of each startup or shutdown shall not exceed 30 minutes and 10 minutes respectively. Startup and shutdown emissions shall be counted toward all applicable emission limits. [District Rules 2201 and 4703]
29. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rule 4703]
30. The ammonia slip (NH₃) emissions (with duct burner firing) shall not exceed either of the following limits: 1.16 lb/hr or 5.0 ppmvd @15% O₂ (based on a 24 hour rolling average). [District Rules 2201 and 4102]
31. The ammonia slip (NH₃) emissions (without the duct burner firing) shall not exceed either of the following limits: 0.45 lb/hr or 5.0 ppmvd @15% O₂ (based on a 24 hour rolling average). [District Rules 2201 and 4102]
32. Annual emissions from the turbine and duct burner system (S-6534-5, as measured after the CO Catalyst and SCR Catalyst), including startup and shutdown emissions, shall not exceed any of the following limits: NO_x: 13,865 lb/year (as NO₂); SO_x: 3,684 lb/year (as SO₂); PM₁₀: 19,821 lb/year; CO: 21,507 lb/year; VOC: 3,872 lb/year (as methane); or NH₃: 10,216 lb/year. All annual emissions limits are based on 12 consecutive month rolling emissions totals. [District Rule 2201]
33. Each calendar month in a twelve consecutive month rolling emissions total will commence at the beginning of the first day of the month. The twelve consecutive month rolling emissions totals to determine compliance with annual emission limits will be compiled from the twelve most recent calendar months. [District Rule 2201]
34. Permittee shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100]
35. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100]
36. Performance testing to measure the NO_x (ppmvd), CO (ppmvd), VOC (ppmvd), and NH₃ (ppmvd) emissions shall be conducted within 120 days of startup (not including commissioning) and at least once every twelve months thereafter. [District Rules 2201, 4102, and 4703 and 40 CFR 60.4340 and 60.4400]

CONDITIONS CONTINUE ON NEXT PAGE

37. Performance testing to measure the PM10 emissions (lb/hr) shall be conducted within 120 days of startup (not including commissioning). [District Rule 2201]
38. Any gas turbine with an intermittently operated auxiliary burner shall demonstrate compliance with the auxiliary burner both on and off. [District Rule 4703]
39. The owner or operator shall be required to conform to the sampling facilities and testing procedures described in District Rule 1081 (as amended 12/16/93), Sections 3.0 and 6.1. [District Rule 1081]
40. The District must be notified 30 days prior to any performance testing and a test plan shall be submitted for District Approval 15 days prior to such testing. [District Rule 1081]
41. Performance testing shall be witnessed or authorized by District personnel. Test results must be submitted to the District within 60 days of performance testing. [District Rule 1081]
42. NOx emissions (referenced as NO2) shall be determined using EPA Method 7E or EPA Method 20. The test results shall be corrected to ISO standard conditions as defined in 40 CFR 60.4400. [District Rules 1081, 2201, and 4703 and 40 CFR 60.4400]
43. SOx emissions (referenced to SO2) shall be determined using EPA Methods 6, 6C, 8, 3A, 20, ASME PTC 19-10-1981-Part 10, or EPA Methods 1 and 2. [District Rules 1081 and 2201 and 40 CFR 60.4415]
44. VOC emissions (referenced as methane) shall be determined using EPA Method 18 or EPA Method 25. [District Rules 1081 and 2201]
45. CO emissions shall be determined using EPA Method 10 or EPA Method 10B. [District Rule 1081, 2201, and 4703]
46. PM10 emissions shall be determined using EPA Methods 201 and 202, or EPA Methods 201A and 202, or CARB Method 501 in conjunction with CARB Method 5. [District Rules 1081 and 2201]
47. Ammonia (NH3) emissions shall be determined using BAAQMD Method ST-1B. [District Rules 1081, 2201, and 4102]
48. The oxygen content of the exhaust gas shall be determined by using EPA Method 3, EPA Method 3A, or EPA Method 20. [District Rules 1081, 2201, and 4703]
49. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [District Rule 4703]
50. Ammonia shall be injected whenever the selective catalytic reduction system catalyst temperature exceeds the minimum ammonia injection temperature recommended by the manufacturer. [District Rule 2201 and 4703]
51. During initial performance testing, the ammonia injection rate shall be monitored concurrently with each testing run to establish acceptable values and ranges that provide a reasonable assurance of ongoing compliance with the emissions limitations stated in this permit (with or without the duct burner operating). The minimum ammonia injection rate(s) demonstrated during the initial performance test to result in compliance with the NOx emission limits shall be imposed as a condition in the Permit to Operate. [District Rules 2201 and 4703]
52. If the ammonia injection rate is less than the minimum ammonia injection rate demonstrated during the initial compliance test, the permittee shall return the ammonia injection rate above the minimum ammonia injection rate established during compliance testing as soon as possible, but no longer than 8 hours after detection. If the ammonia injection rate is not returned above the minimum ammonia injection rate established during compliance testing within 8 hours, the permittee shall notify the District within the following 1 hour and conduct a source test within 60 days of the first exceedance to demonstrate compliance with the applicable emission limits at the reduced ammonia injection rate. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must 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 the performing the notification and testing required by this condition. [District Rules 2201 and 4703]

53. The permittee shall monitor and record the stack concentration of NO_x (as NO₂), SO_x (as SO₂), CO, and O₂ weekly. If compliance with the NO_x, SO_x, and CO emissions is demonstrated for eight (8) consecutive weeks, then the monitoring frequency will be reduced to monthly. If deviations are observed in two consecutive months, monitoring shall revert to weekly until 8 consecutive weeks show no deviations. 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 one (1) day of restarting the unit unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the week if on a weekly monitoring schedule. [District Rules 2201 and 4703 and 40 CFR 60.4415]
54. If the NO_x, SO_x, and/or CO concentrations, as measured by the permittee with a portable analyzer, exceed the permitted emission limits, the permittee shall notify the District and return the NO_x, SO_x, and CO concentrations to the permitted emission limits as soon as possible but no longer than eight (8) hours after detection. If the permittee's portable analyzer readings continue to exceed the permitted emissions limits after eight (8) hours, the permittee shall notify the District within the following one (1) hour, and conduct a certified source test within 60 days to demonstrate compliance with the permitted emissions limits. In lieu of conducting a source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must 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 2201 and 4703 and 40 CFR 60.4415]
55. Compliance with ammonia emission limit shall be demonstrated utilizing one of the following procedures: 1) The permittee may utilize a continuous in-stack ammonia monitor to verify compliance with the ammonia emissions limit. 2) The permittee may utilize a District-approved calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% O₂. The permittee shall submit a detailed calculation protocol or monitoring plan for District Approval at least 60 days prior to the commencement of operation. [District Rules 2201 and 4102]
56. The owner or operator shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up time and stop time, length and reason for reduced load periods, total hours of operation, and the type and quantity of fuel used. [District Rule 4703]
57. The permittee shall provide notification and recordkeeping as required under 40 CFR, Part 60, Subpart A, 60.7. [40 CFR 60.7]
58. The permittee shall maintain records of the amount of fuel combusted in the duct burners listed on permits S-6534-3 and S-6534-5 and calculated combined heat input. [District Rule 2201]
59. The permittee shall maintain a record of the cumulative 12 month rolling NO_x, CO, VOC, SO_x, PM₁₀, and NH₃ emissions total, in lb/year, from this unit. These records shall be updated at the end of each month. [District Rule 2201]
60. The permittee shall maintain a daily record of the ammonia injection rate and SCR catalyst inlet temperature. [District Rule 2201]
61. The owner or operator shall submit a written report of excess emissions and monitoring downtime to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess emissions, nature and the cause of excess (if known), corrective actions taken and preventative measures adopted; Applicable time and date of each period during monitor downtime; A negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR 60.4375 and 60.4395]
62. Permittee shall submit notification of the initial startup of the duct burner, as provided by 40 CFR Part 60 Section 60.7 to the EPA administrator. The notification shall include the design heat input capacity of the duct burner, identify the fuels to be combusted in the duct burner, and a copy of the performance test data from the initial performance tests for NO_x emissions from the turbine and duct burner. [40 CFR 60.7]
63. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070, 2201, and 4703]



San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT

Due Date
11/18/2013

Amount Due
\$ 7,310.20

Amount Enclosed

ATCFEE S1131975
6534 S109533 9/18/2013

RETURN THIS TOP PORTION ONLY, WITH REMITTANCE TO:

PIXLEY COGEN PARTNERS, LLC
P O BOX 891
PIXLEY, CA 93256-0891

SJVAPCD
34946 Flyover Court
Bakersfield, CA 93308

Thank You!



San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT

SJVAPCD Tax ID: 77-0262563

Facility ID
S6534

Invoice Date
9/18/2013

Invoice Number
S109533

Invoice Type
Project: S1131975

PIXLEY COGEN PARTNERS
11222 ROAD 120
PIXLEY, CA 93256

PROJECT NUMBER: 1131975

APPLICATION FILING FEES	\$ 142.00
ENGINEERING TIME FEES	\$ 7,310.20
TOTAL FEES	\$ 7,452.20
LESS PREVIOUSLY PAID PROJECT FEES APPLIED TO THIS INVOICE	(\$ 142.00)
PROJECT FEES DUE (Enclosed is a detailed statement outlining the fees for each item.)	\$ 7,310.20

Late Payment (see Rule 3010, Section 11.0 Late Fees)	
Postmarked	Total Due
After 11/18/2013 through 11/28/2013	\$ 8,041.22
After 11/28/2013	\$ 10,965.30
After 12/18/2013	Permits To Operate MAY BE SUSPENDED

San Joaquin Valley Air Pollution Control District
34946 Flyover Court, Bakersfield, CA 93308, (661) 392-5500, Fax (661) 392-5585

Invoice Detail

Facility ID: S6534

PIXLEY COGEN PARTNERS
11222 ROAD 120
PIXLEY, CA 93256Invoice Nbr: S109533
Invoice Date: 9/18/2013
Page: 1**Application Filing Fees**

Project Nbr	Permit Number	Description	Application Fee
S1131975	S-6534-3-4	MODIFICATION OF 5.432 MW ELECTRIC POWER GENERATION SYSTEM (COMBINED CYCLE CONFIGURATION) CONSISTING OF A 67.1 MMBTU/HR (BASED ON THE HIGHER HEATING VALUE OF NATURAL GAS) SOLAR MODEL #TAURUS 65-8401S NATURAL GAS-FIRED COMBUSTION TURBINE WITH A 106.4 MMBTU/HR (BASED ON THE HIGHER HEATING VALUE OF NATURAL GAS) NATURAL GAS-FIRED DUCT BURNER, ALL SERVED BY A CO CATALYST AND A SELECTIVE CATALYTIC REDUCTION SYSTEM WITH AMMONIA INJECTION: LIMIT COMBINED HEAT INPUT FOR DUCT BURNERS LISTED ON PERMITS S-6534-3 AND '5 TO 106.4 MMBTU/HR	\$ 71.00
S1131975	S-6534-5-0	5.67 MW ELECTRIC POWER GENERATION SYSTEM (COMBINED CYCLE CONFIGURATION), CONSISTING OF A 67.65 MMBTU/HR (BASED ON THE HIGHER HEATING VALUE OF NATURAL GAS) SOLAR MODEL #TAURUS60-7901S NATURAL GAS-FIRED COMBUSTION TURBINE WITH A 106.4 MMBTU/HR (BASED ON THE HIGHER HEATING VALUE OF NATURAL GAS) NATURAL GAS/BIOGAS-FIRED DUCT BURNER, ALL SERVED BY A CO CATALYST AND A RENTECH SELECTIVE CATALYTIC REDUCTION SYSTEM WITH AMMONIA INJECTION AND A HEAT RECOVERY STEAM GENERATOR	\$ 71.00
Total Application Filing Fees:			\$ 142.00

Engineering Time Fees

Project Nbr	Quantity	Rate	Description	Fee
S1131975	49.8 hours	\$ 139.00 /h	After-Hours Engineering Time(OverTime)	\$ 6,922.20
			Less Credit For Application Filing Fees	(\$ 142.00)
			After-Hours Engineering Time(OverTime) SubTotal	\$ 6,780.20
S1131975	5 hours	\$ 106.00 /h	Standard Engineering Time	\$ 530.00
Total Engineering Time Fees:				\$ 7,310.20